

FIG. 1A

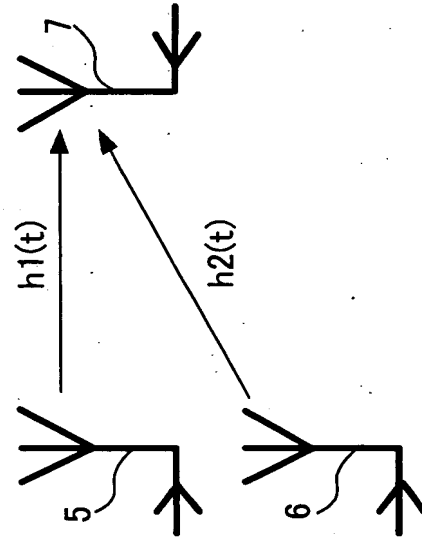


FIG. 1B

(PRIOR ART)

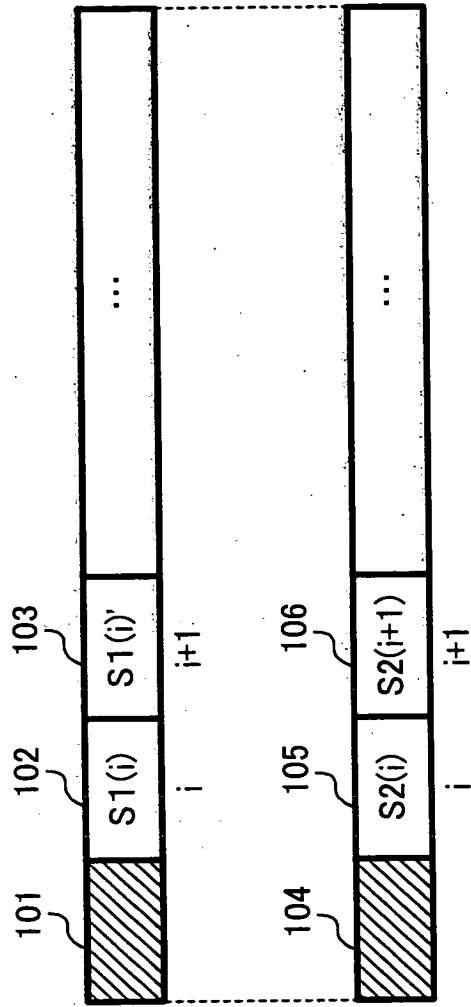


FIG.2A

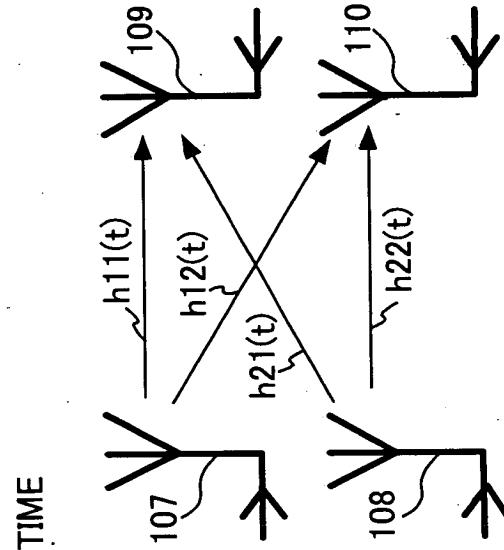


FIG.2B

(PRIOR ART)

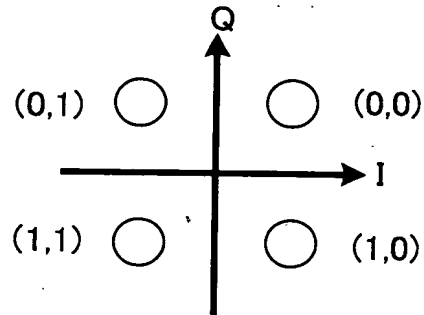


FIG.3A

S1(i) SIGNAL POINT
ARRANGEMENT

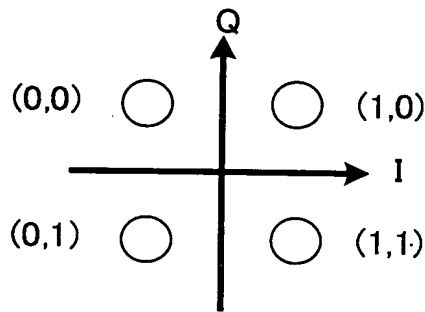


FIG.3B

S1(i)' SIGNAL POINT
ARRANGEMENT

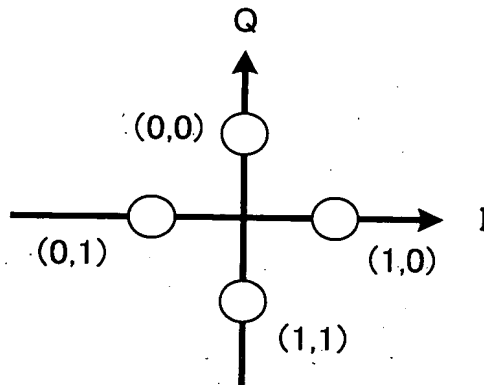


FIG.3C

S1(i)' SIGNAL POINT
ARRANGEMENT

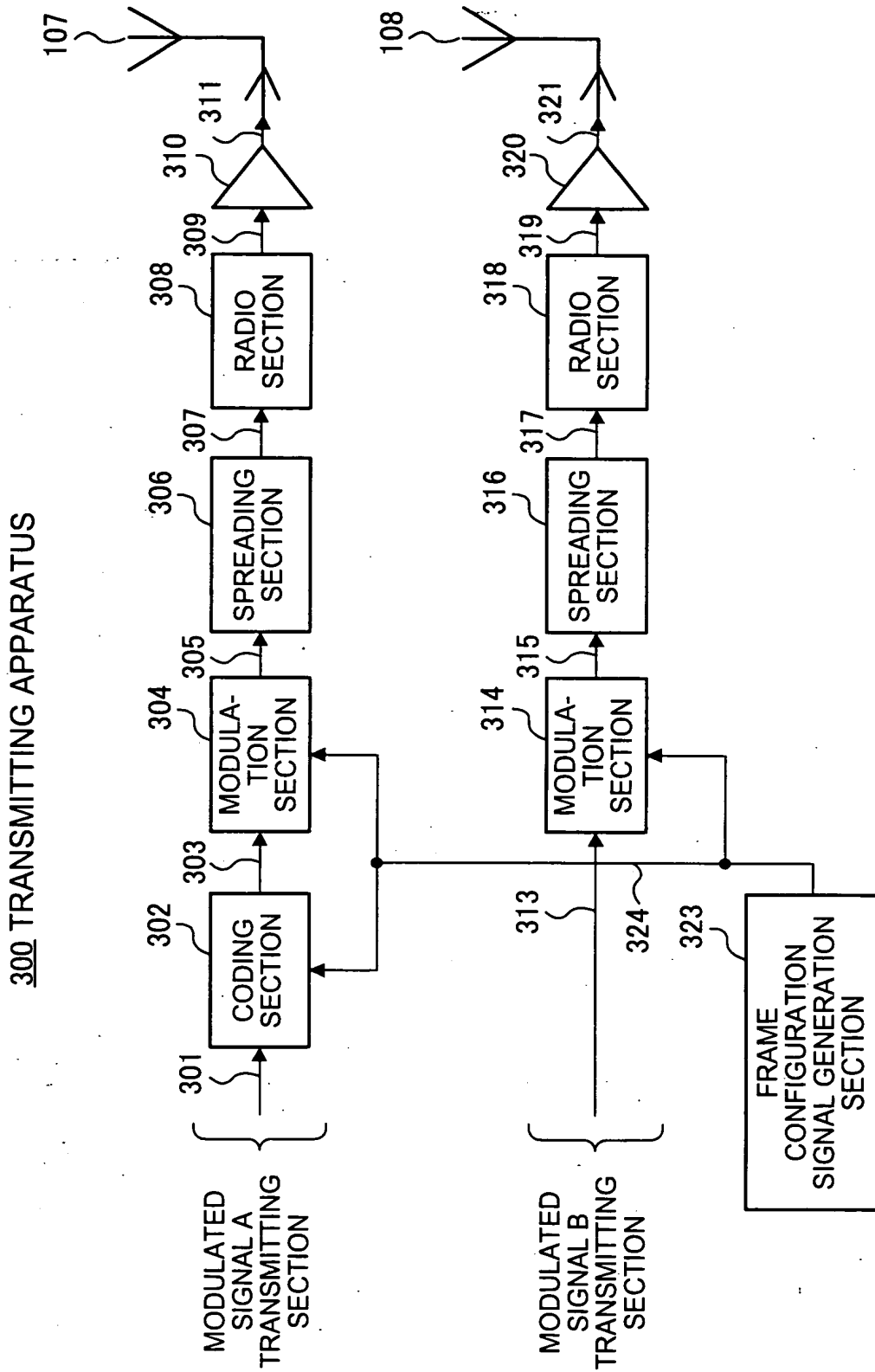


FIG.4

304 MODULATION SECTION

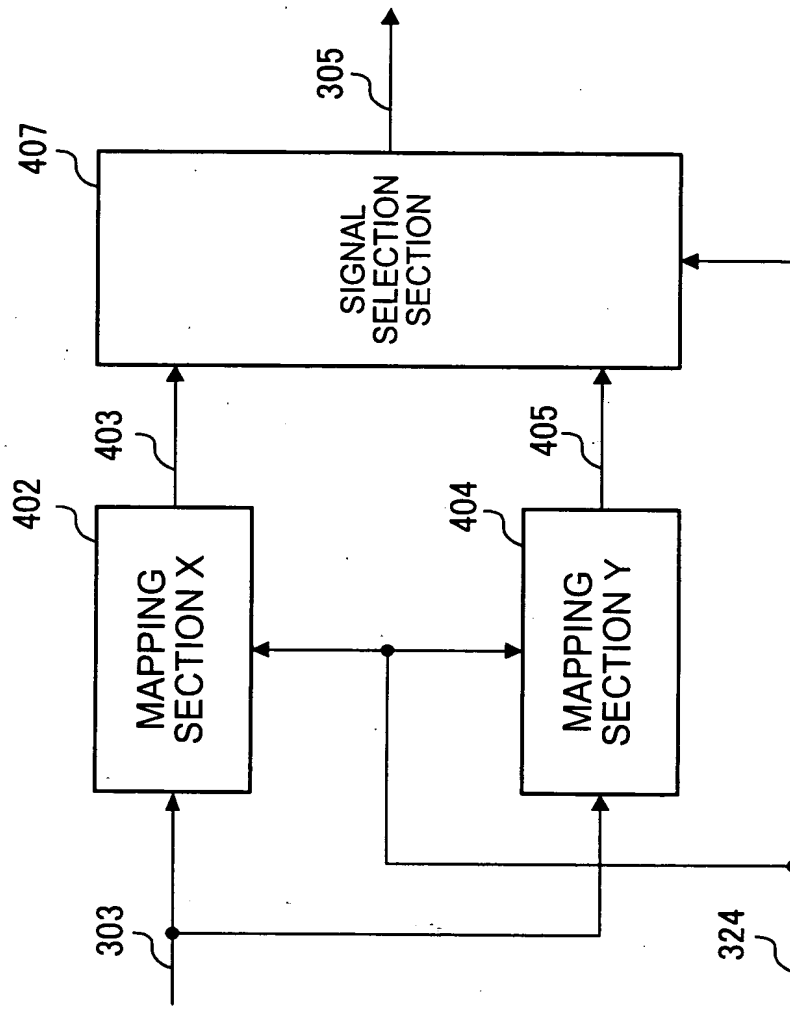


FIG.5

500 RECEIVING APPARATUS

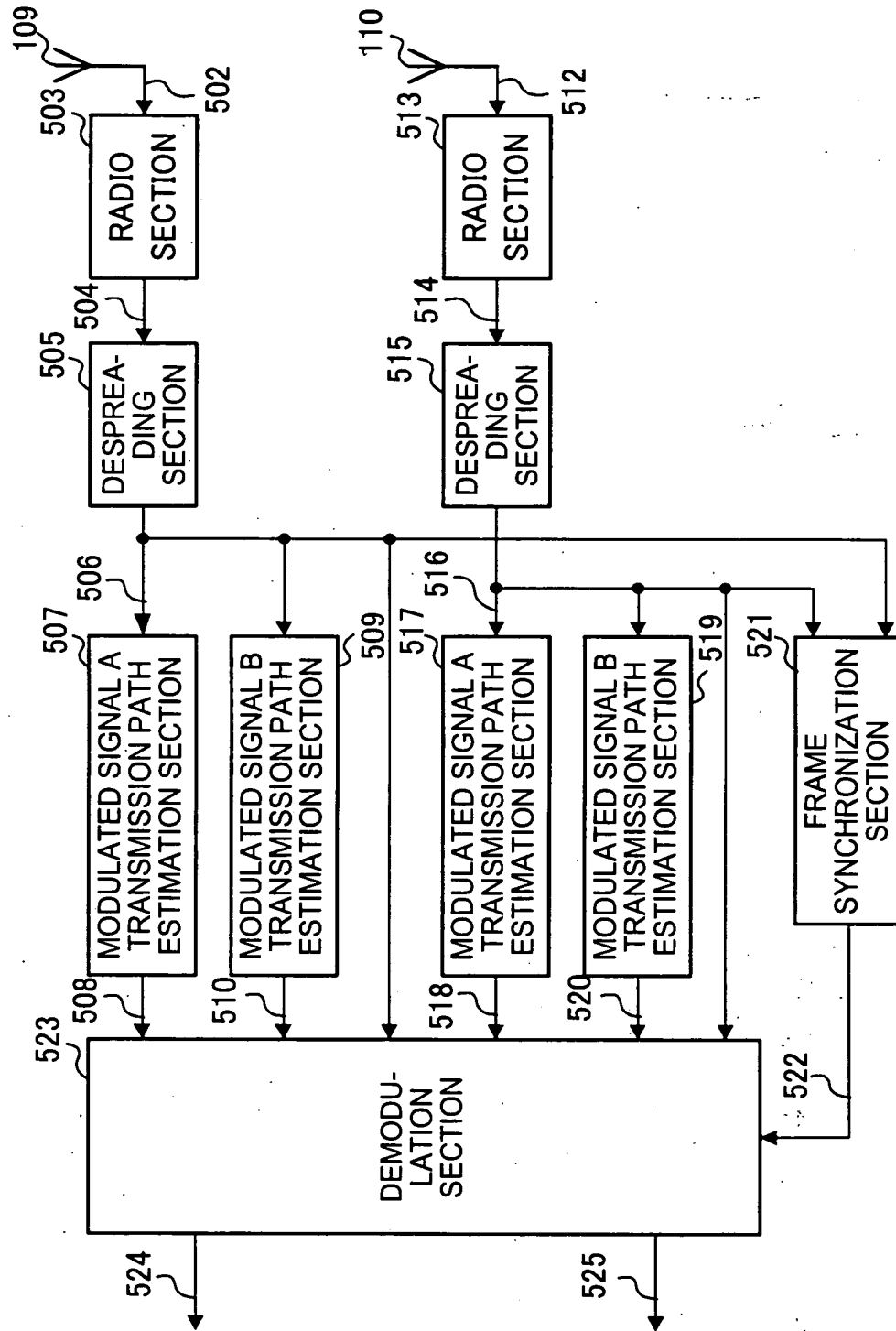


FIG.6

523 DEMODULATION SECTION

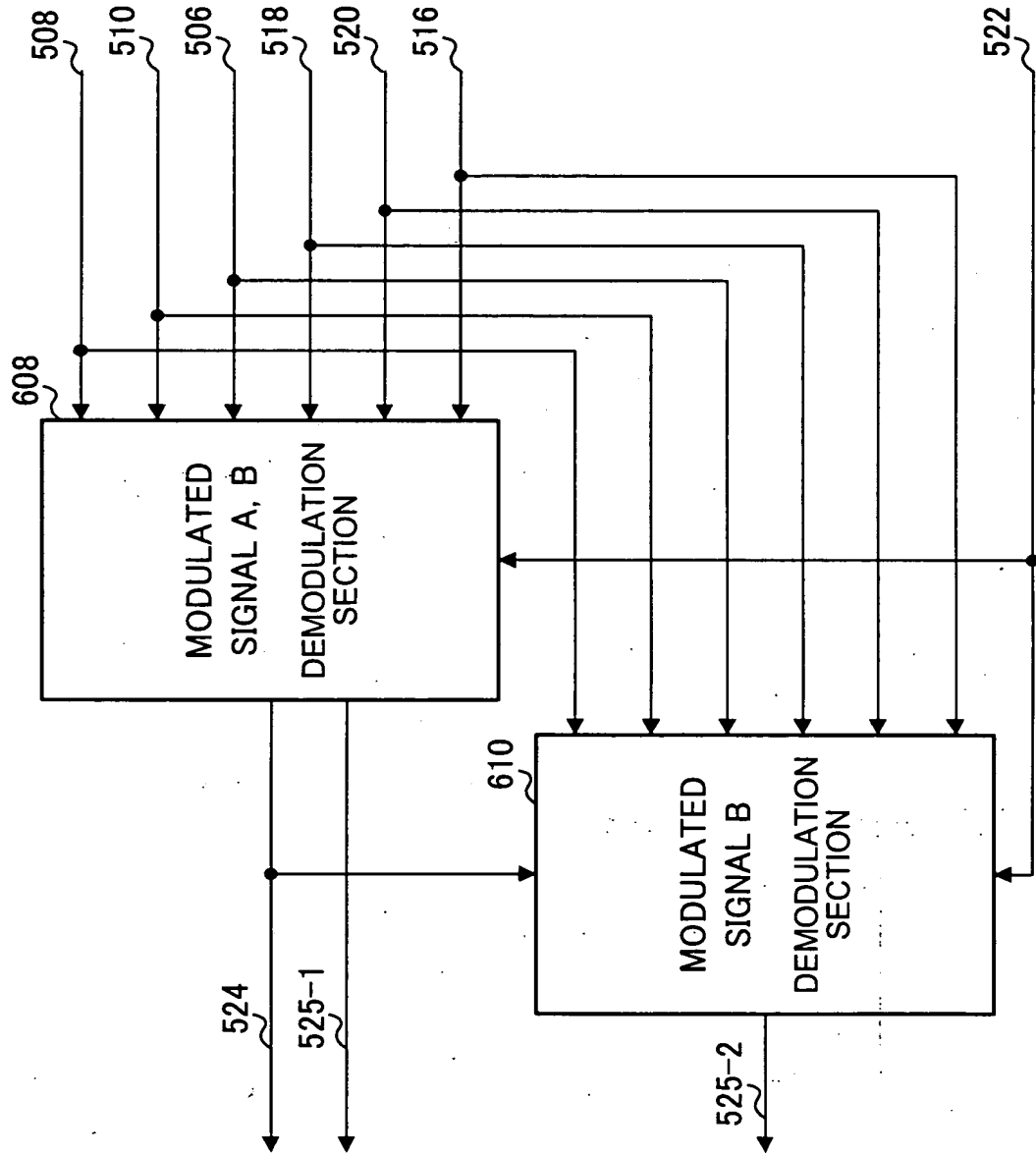


FIG.7

523 DEMODULATION SECTION

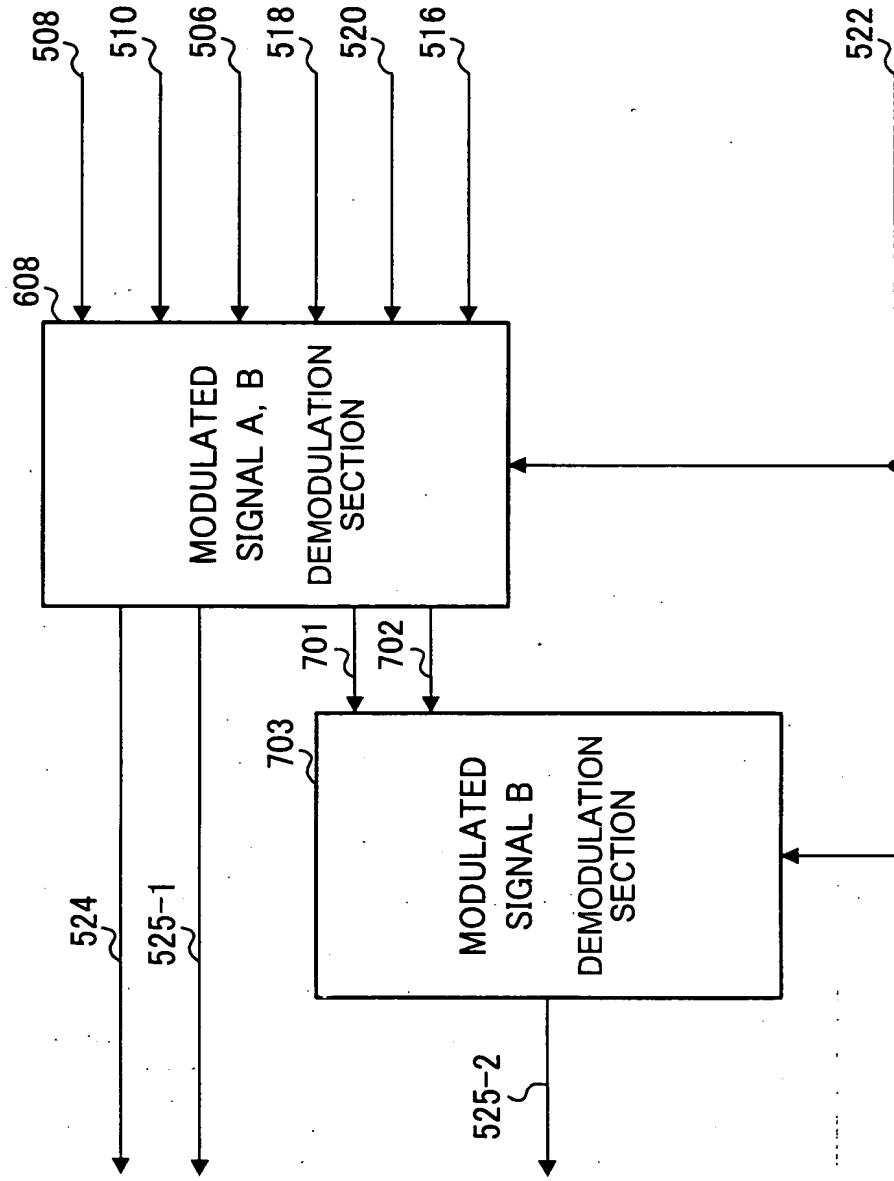


FIG.8

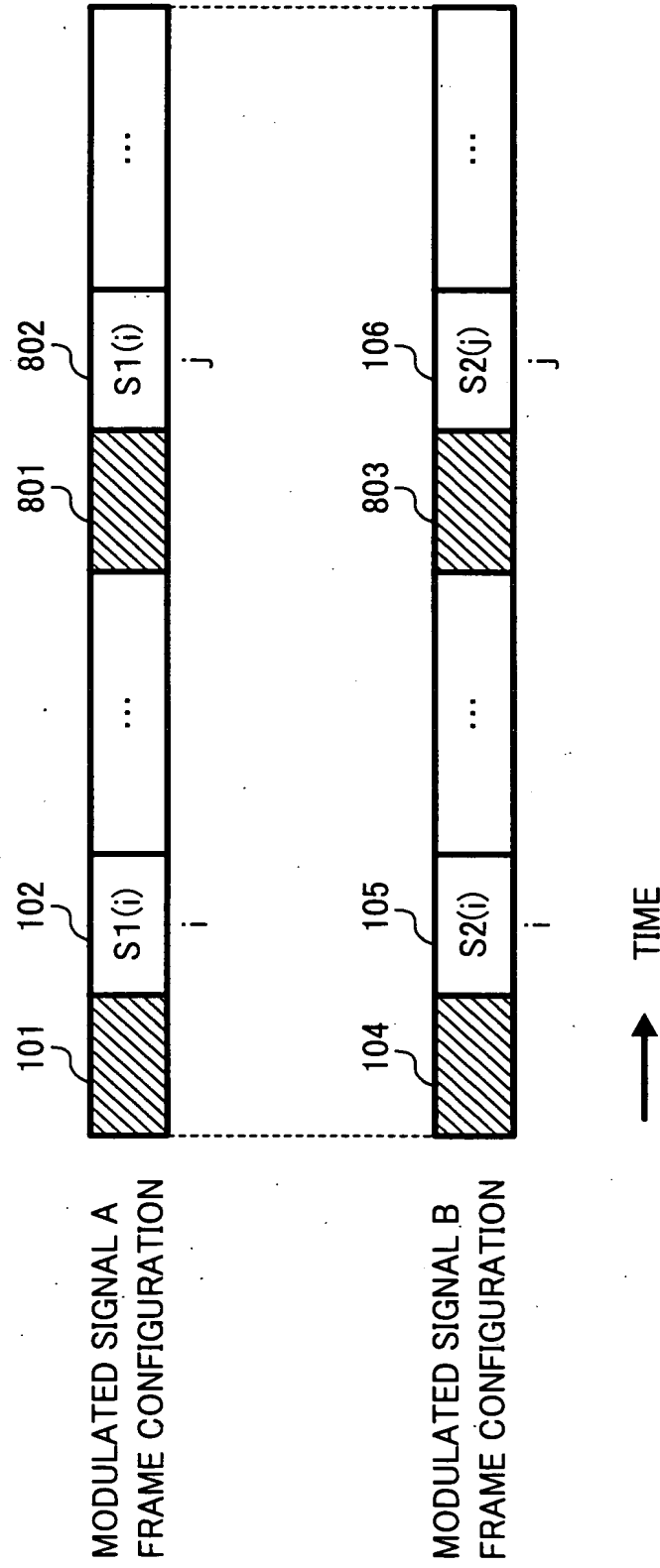


FIG.9

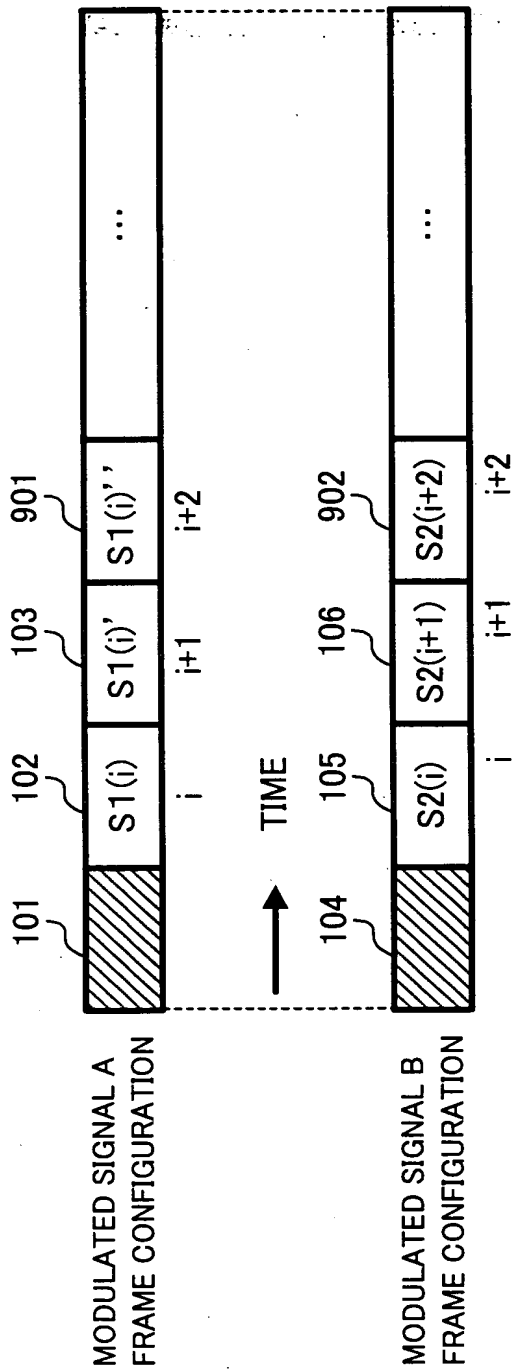


FIG. 10A

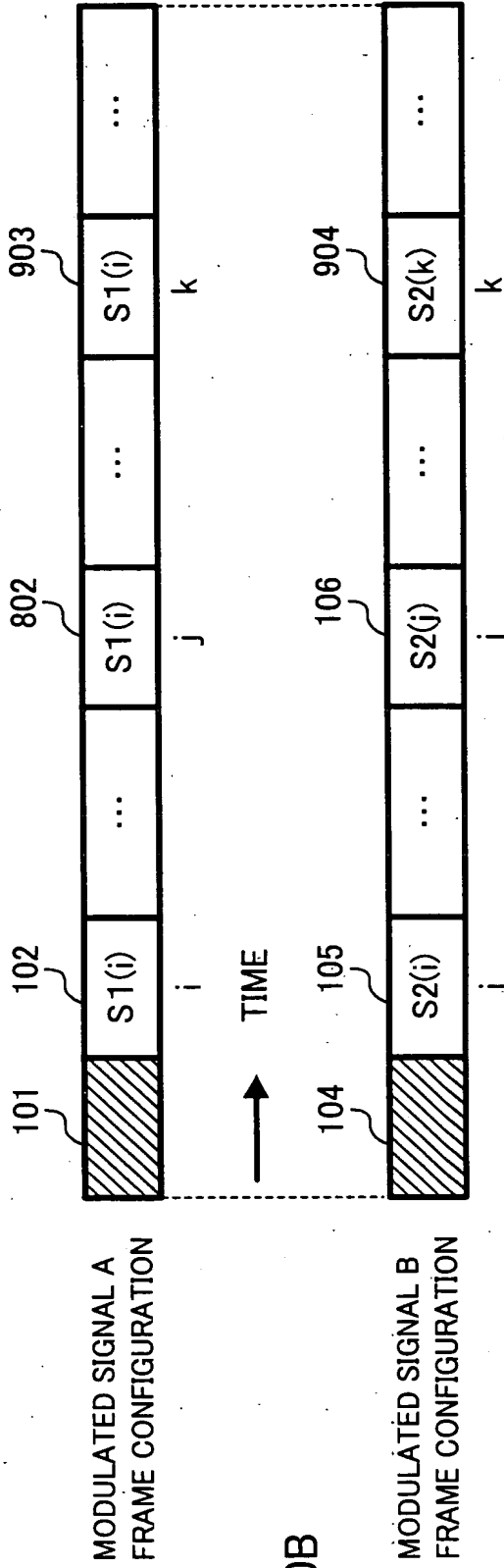


FIG. 10B

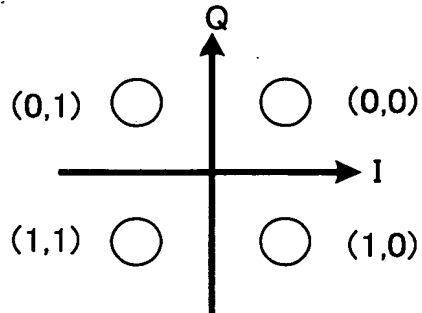


FIG.11A S1(i) SIGNAL POINT ARRANGEMENT

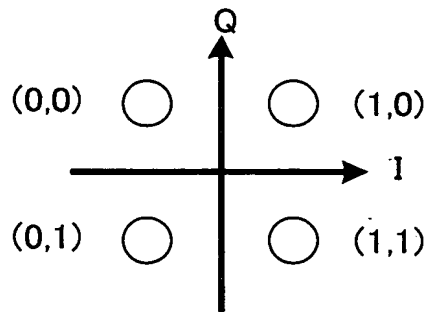


FIG.11B S1(i)' SIGNAL POINT ARRANGEMENT

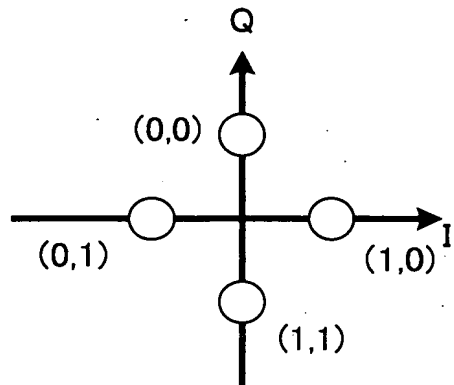


FIG.11C S1(i)'' SIGNAL POINT ARRANGEMENT

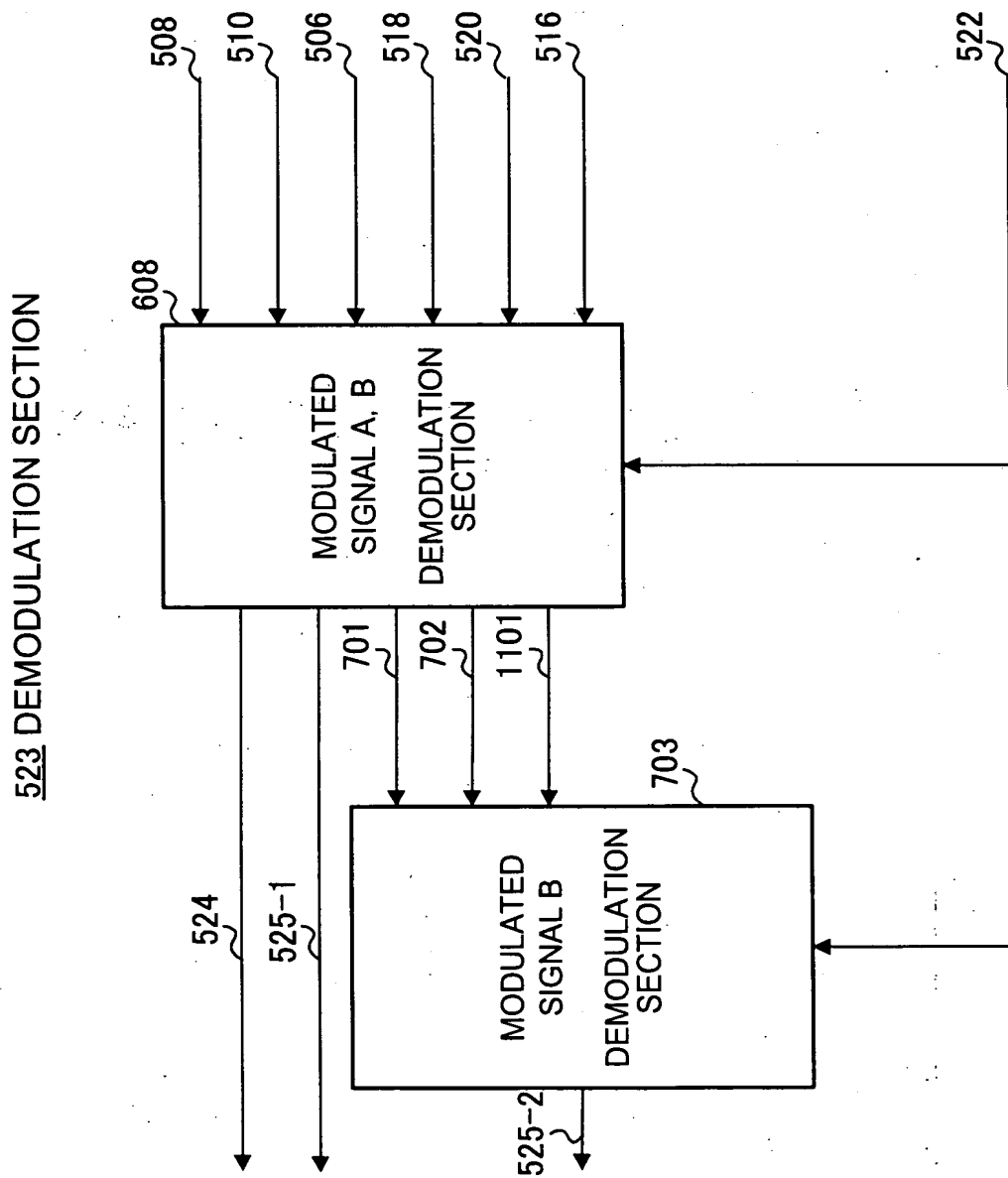


FIG.12

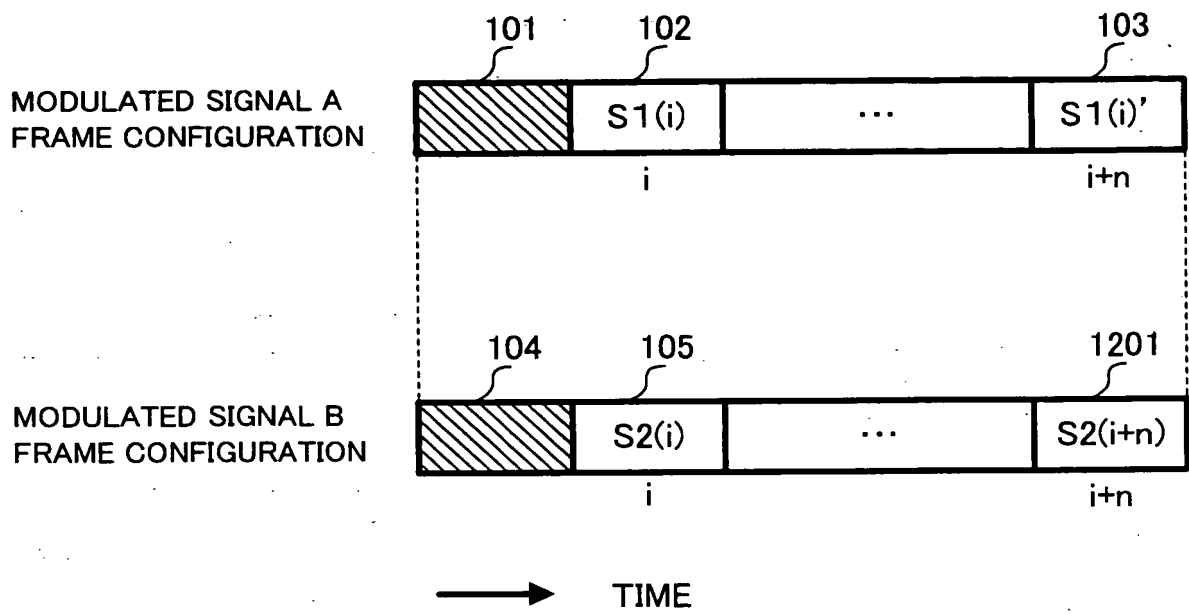


FIG.13

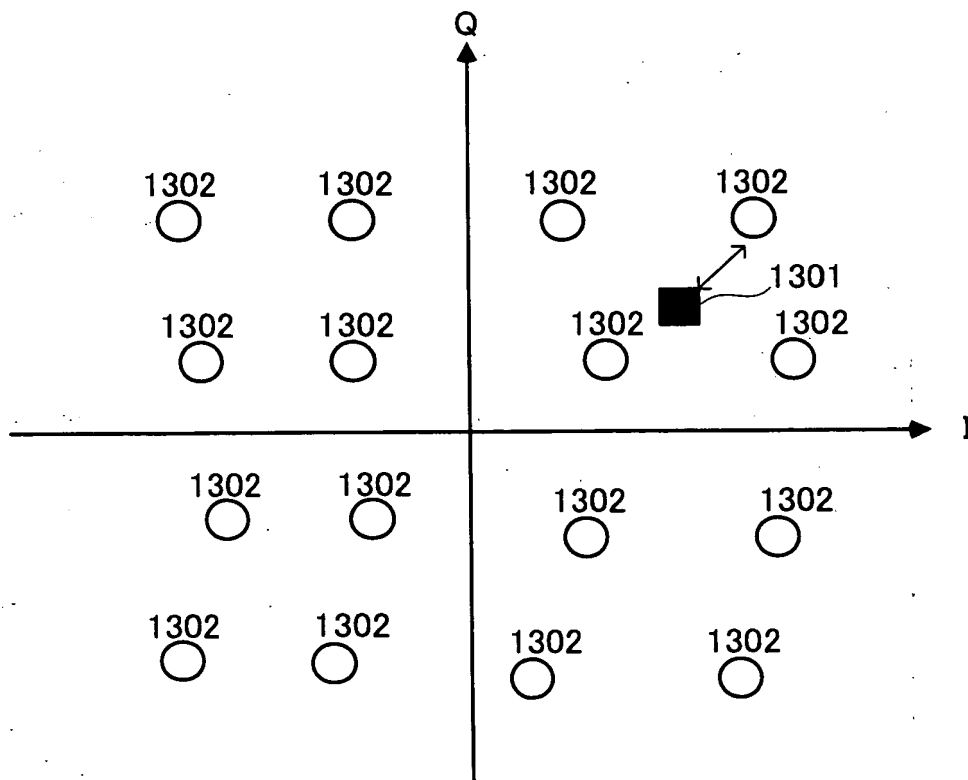


FIG.14

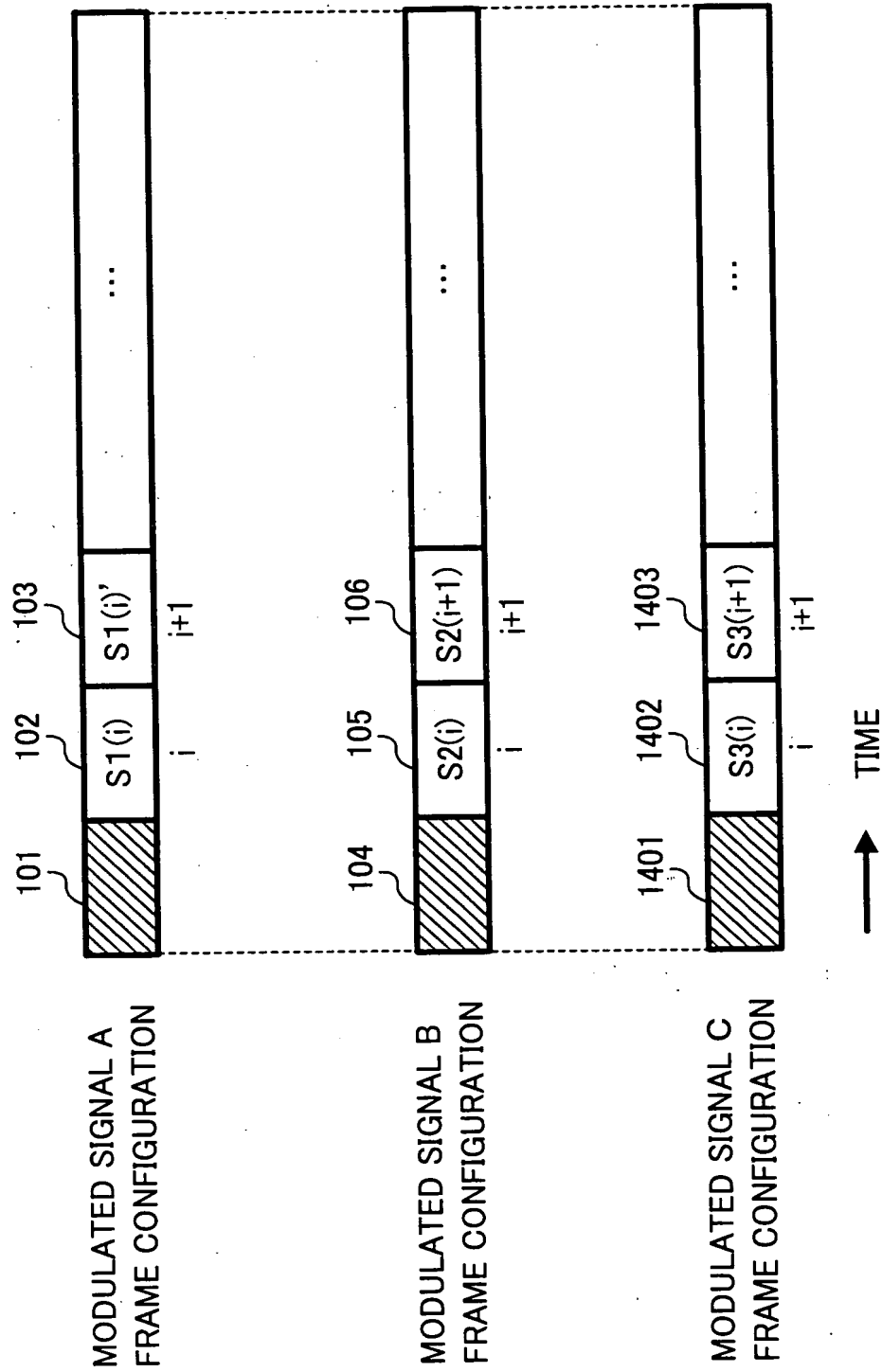


FIG.15

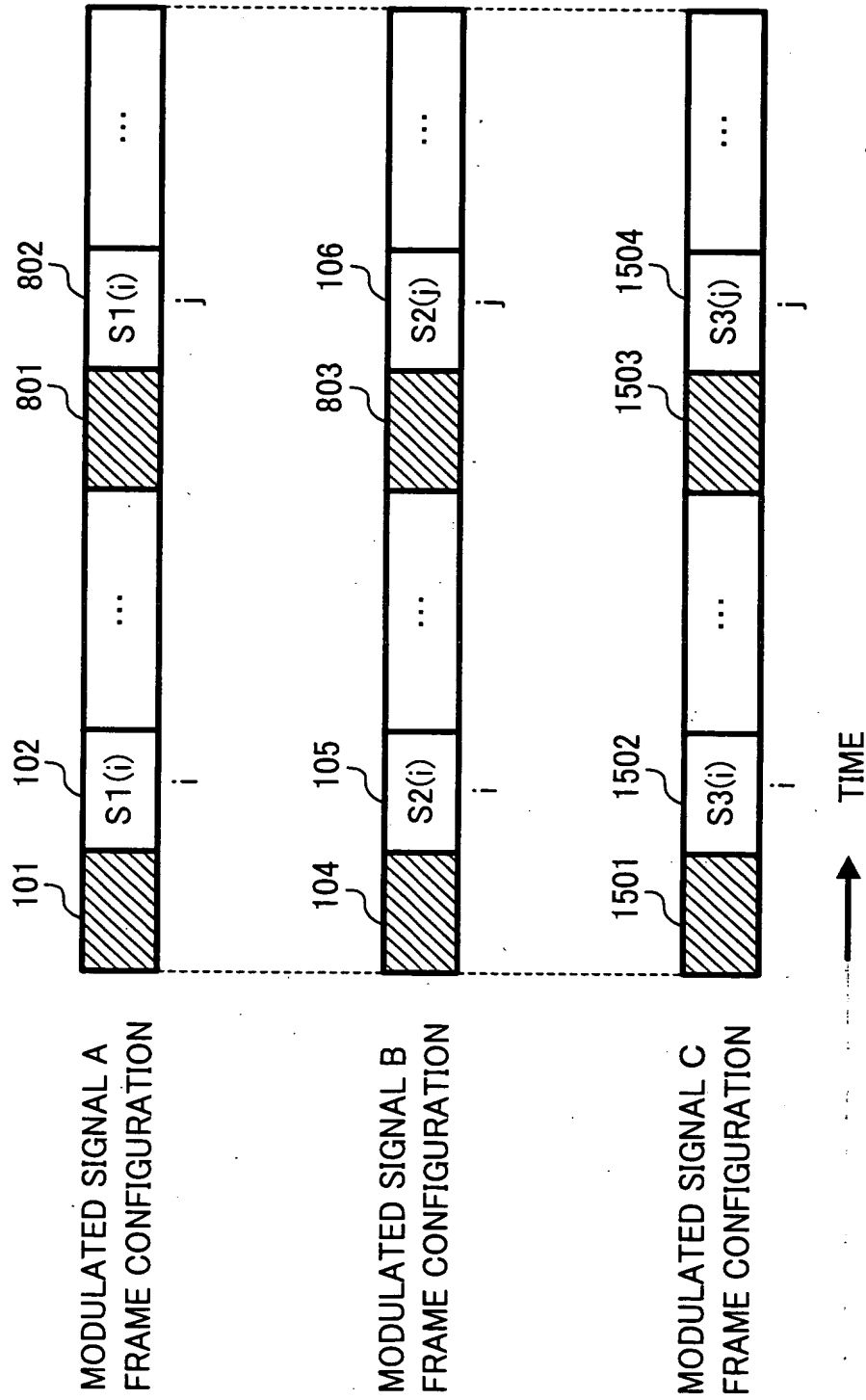


FIG.16

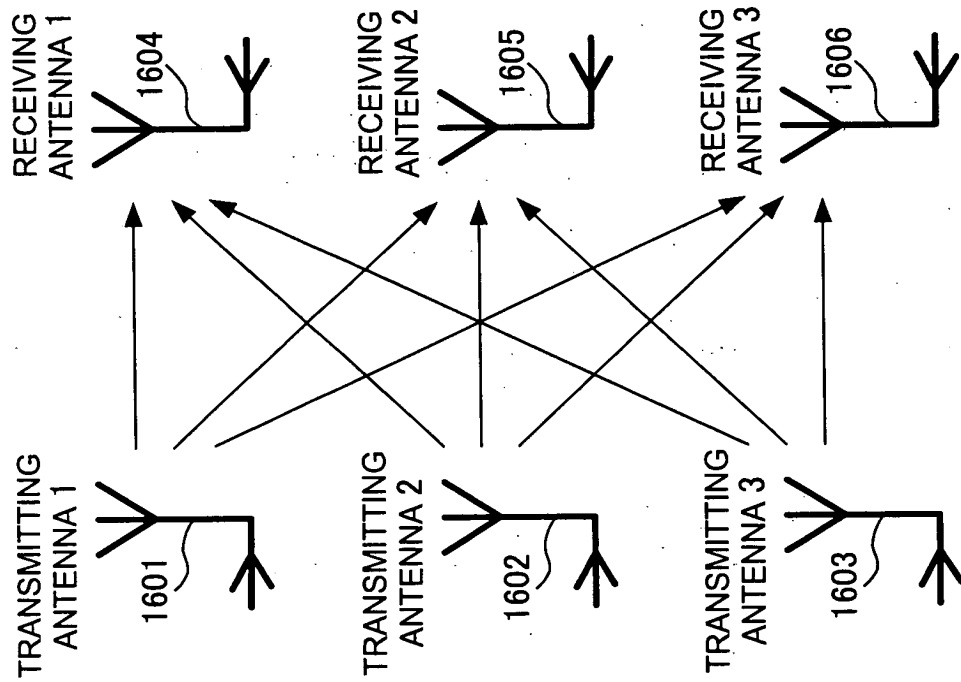


FIG.17

1700 TRANSMITTING APPARATUS

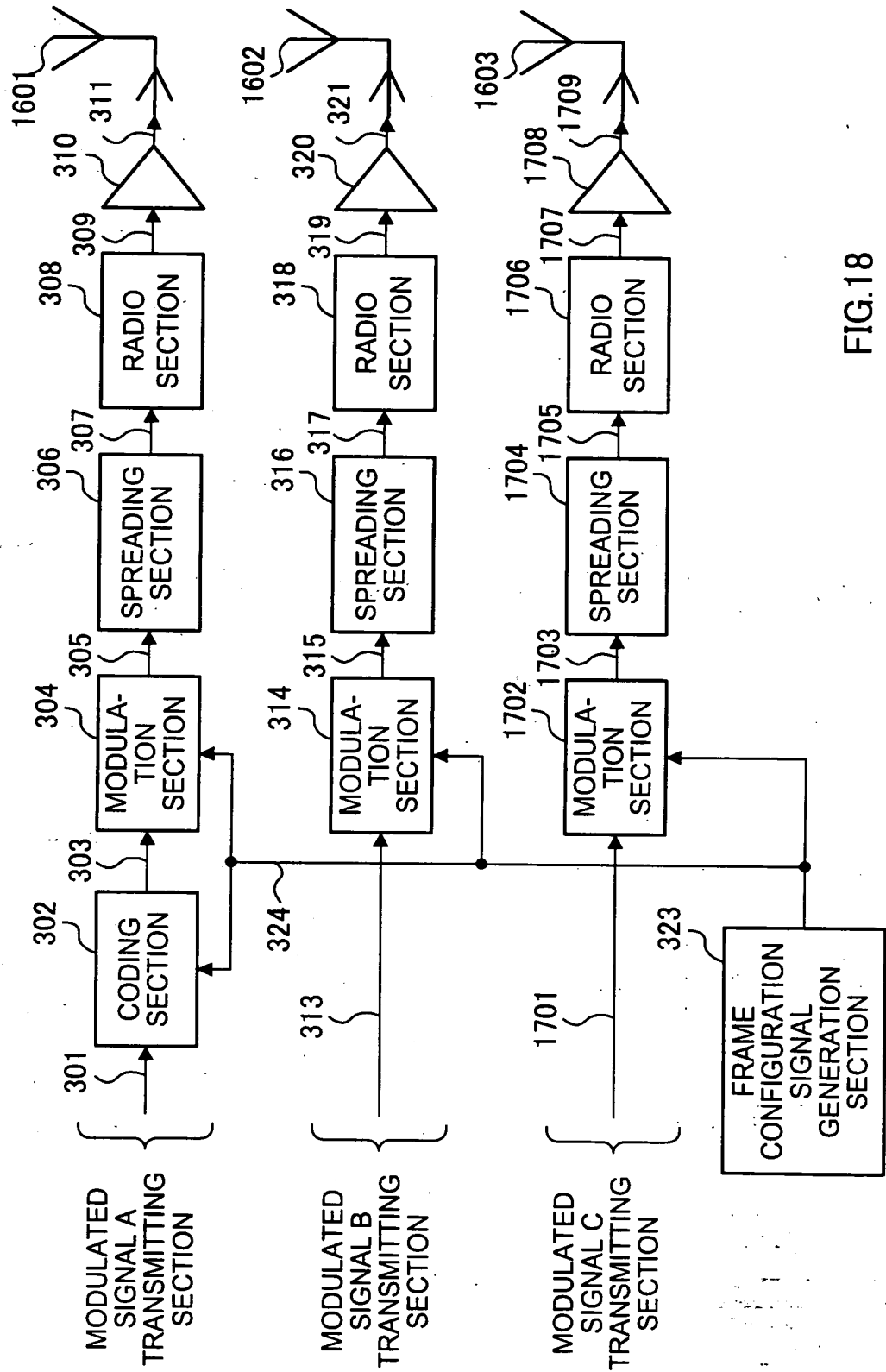


FIG.18

1800 RECEIVING APPARATUS

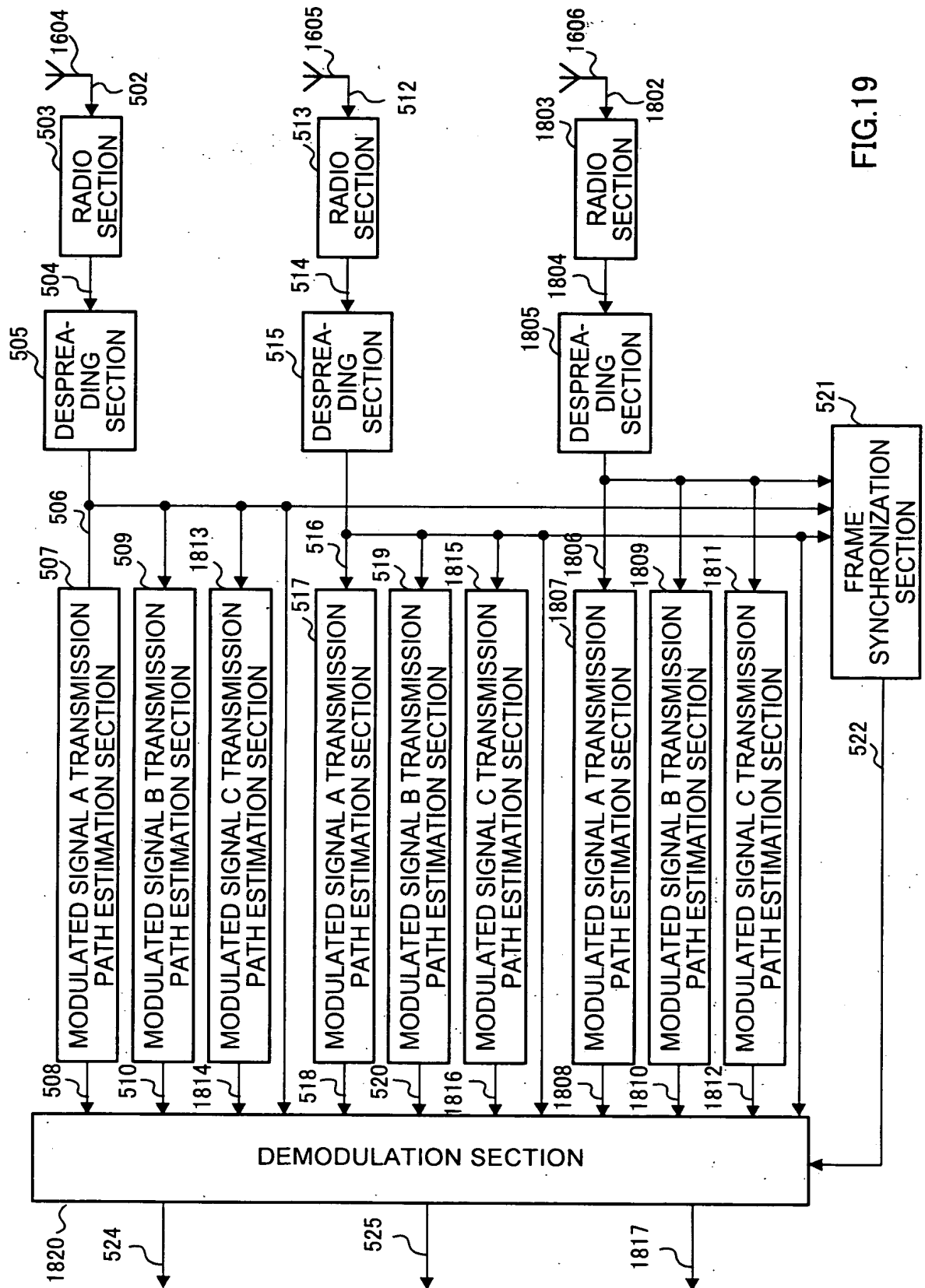


FIG.19

1820 DEMODULATION SECTION

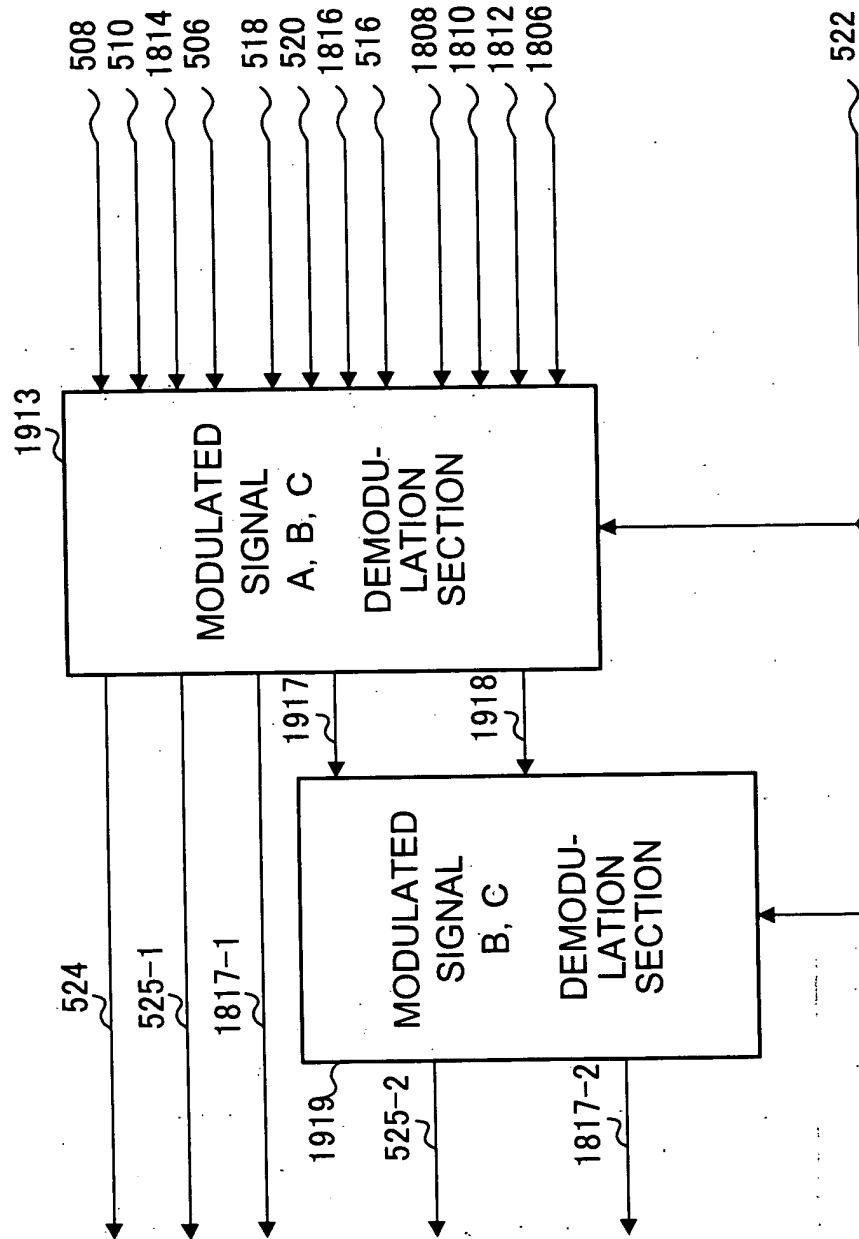


FIG.20

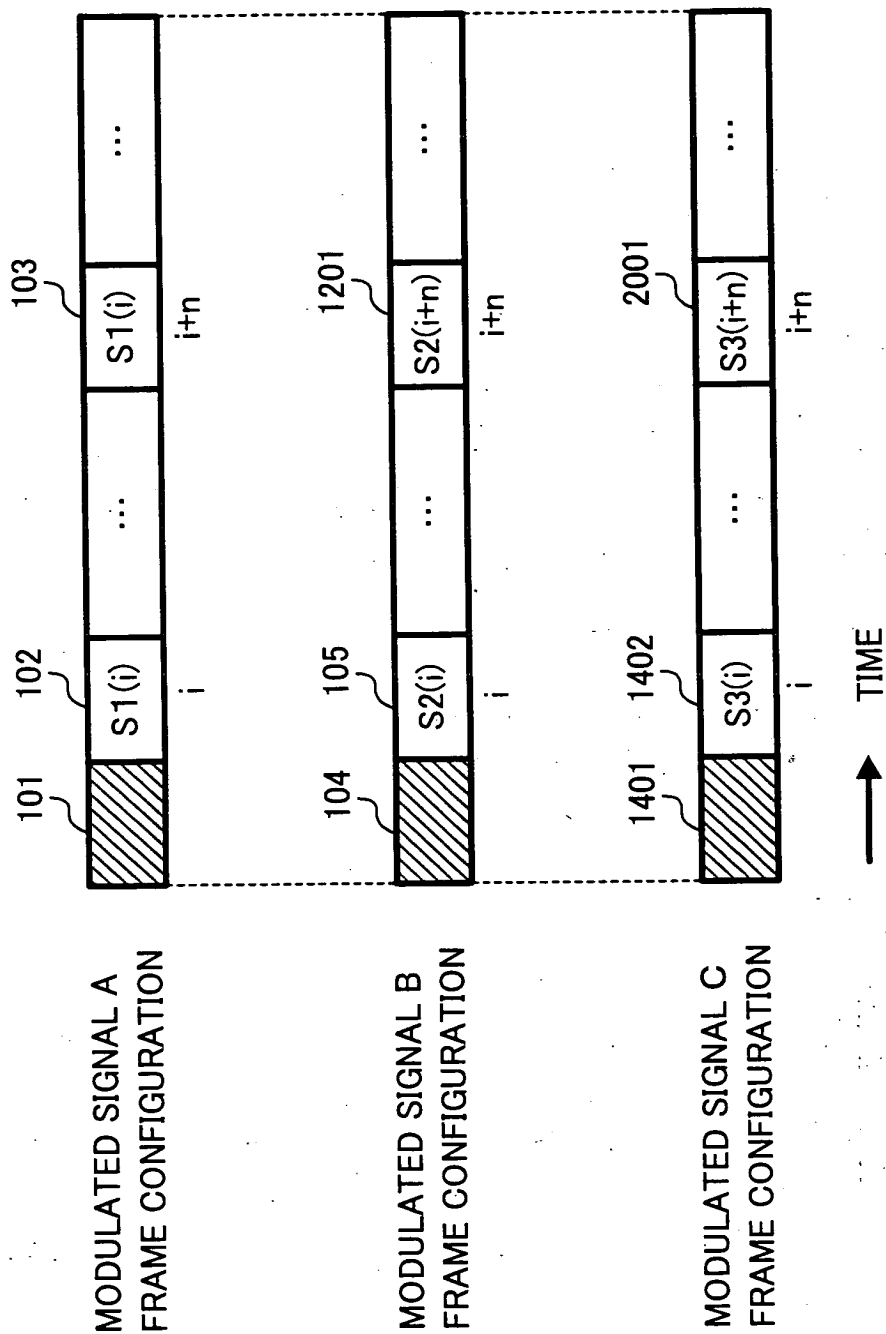


FIG.21

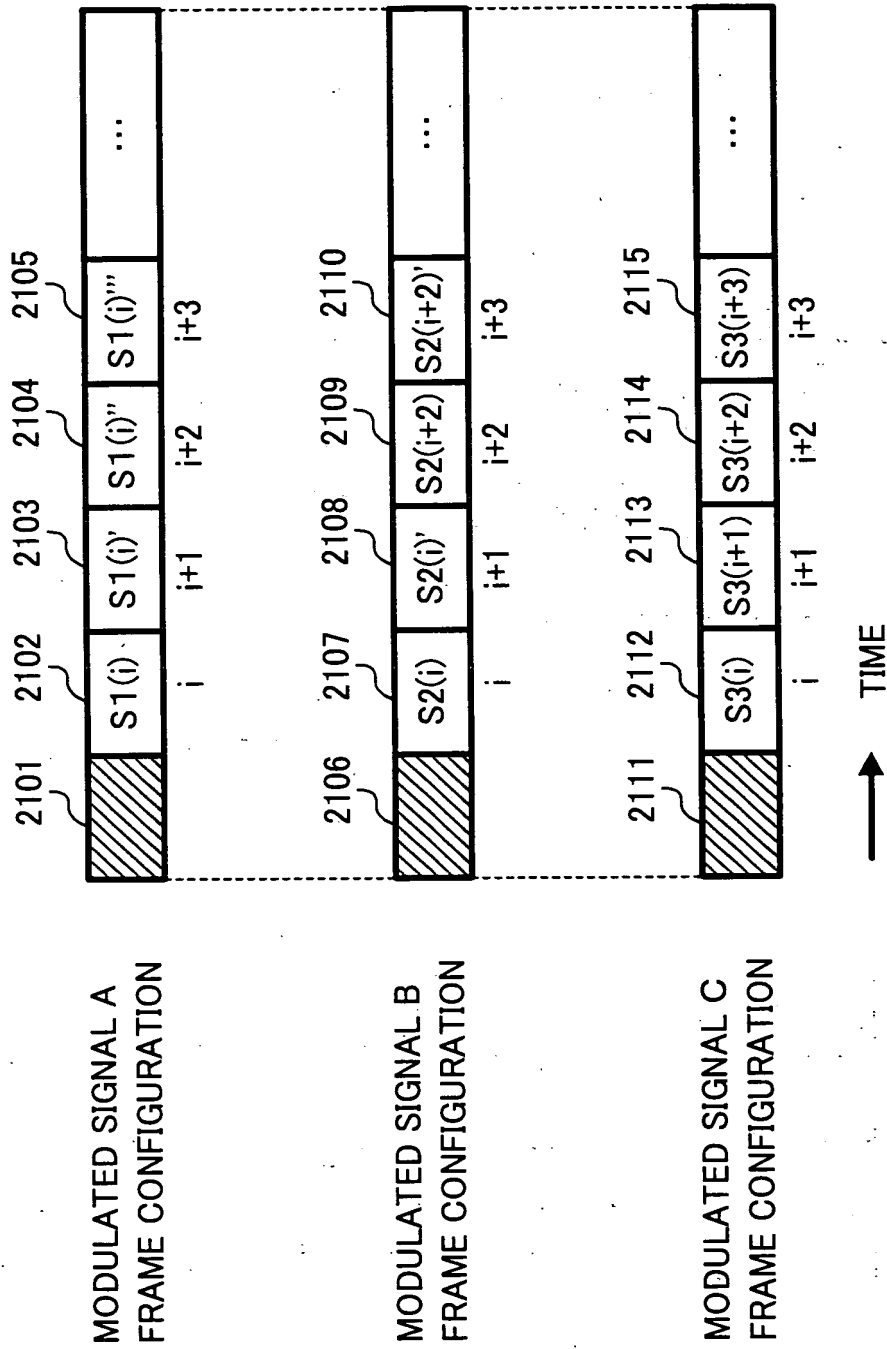


FIG.22

2200 TRANSMITTING APPARATUS

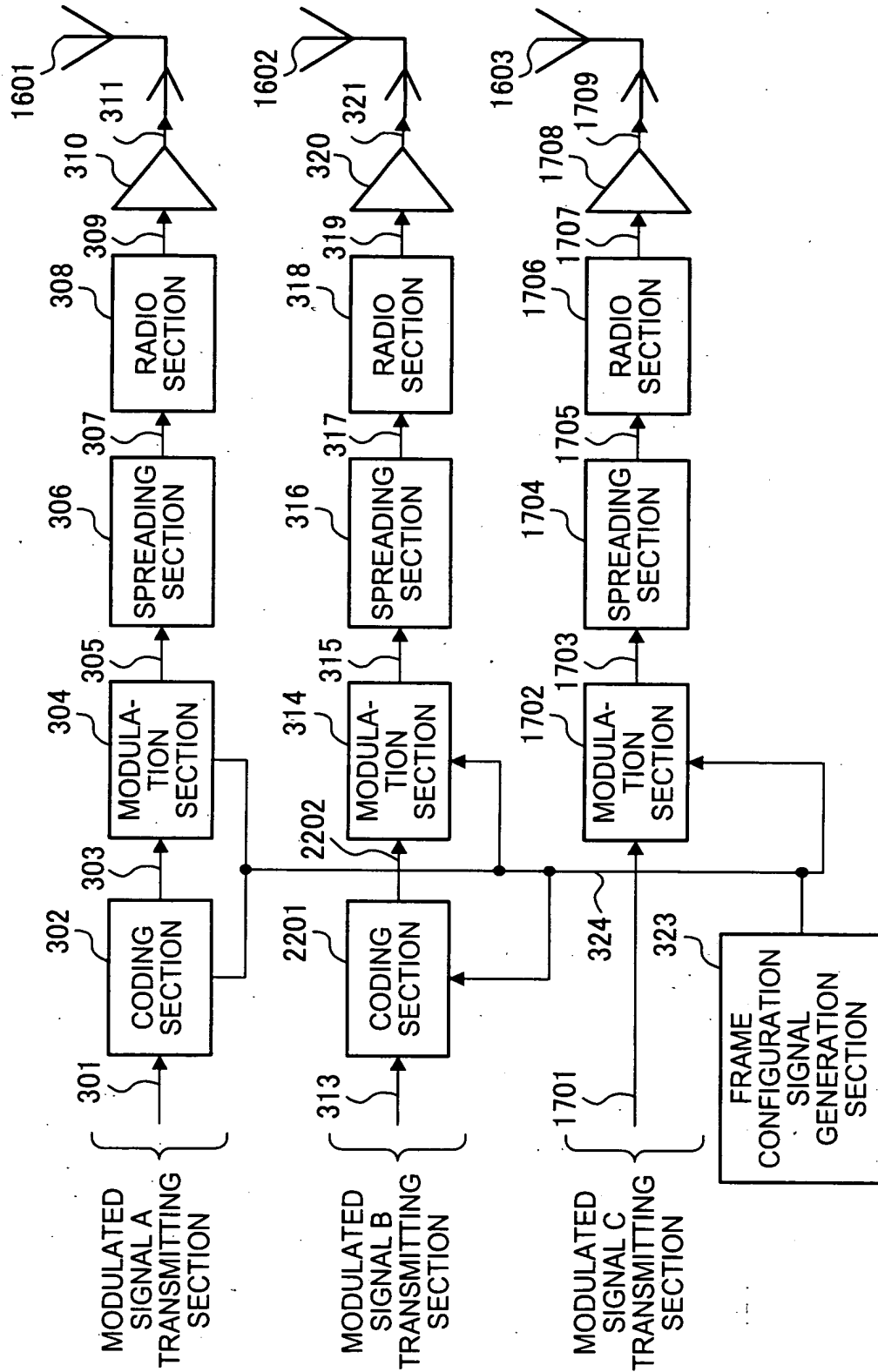


FIG.23

1820 復調部

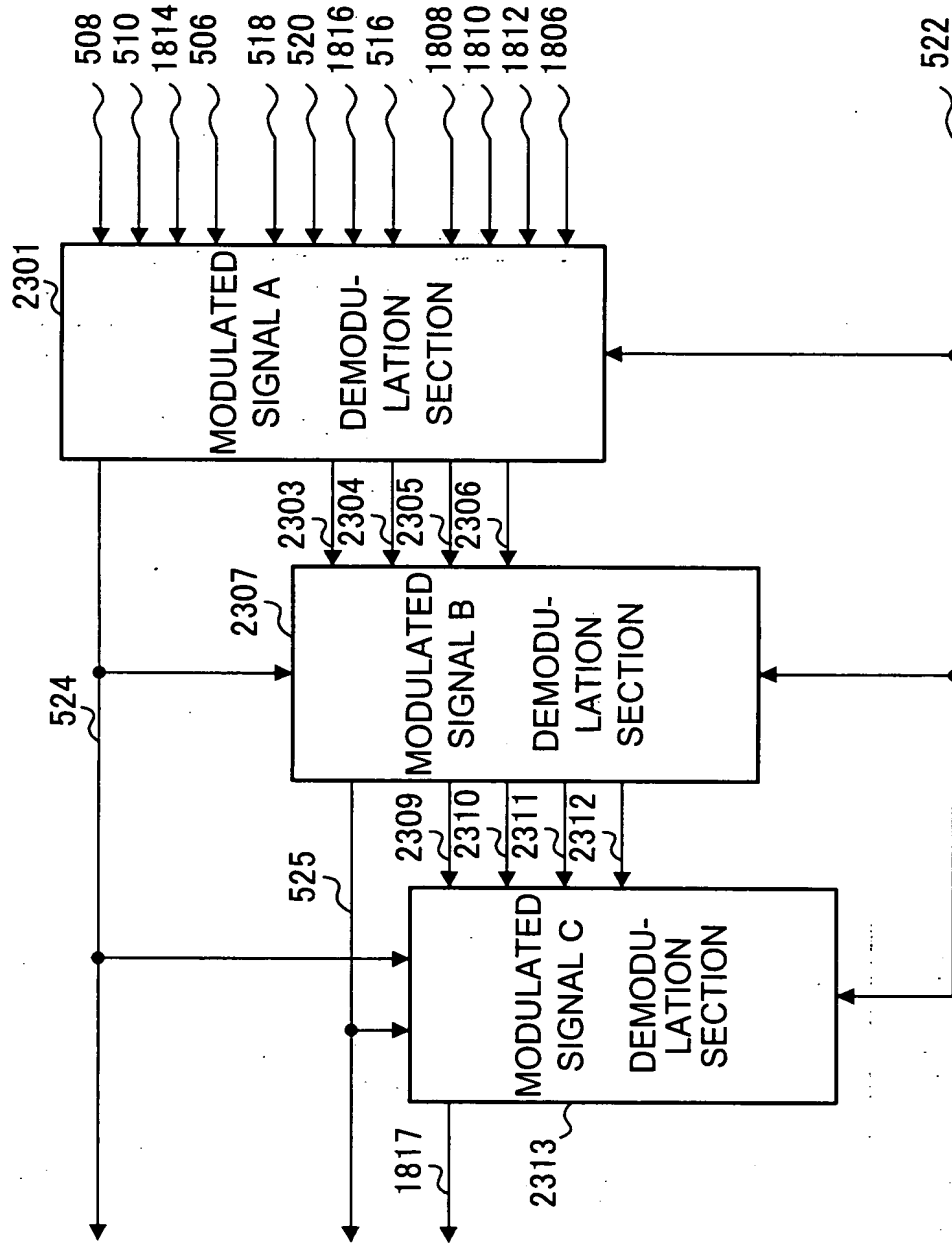


FIG.24

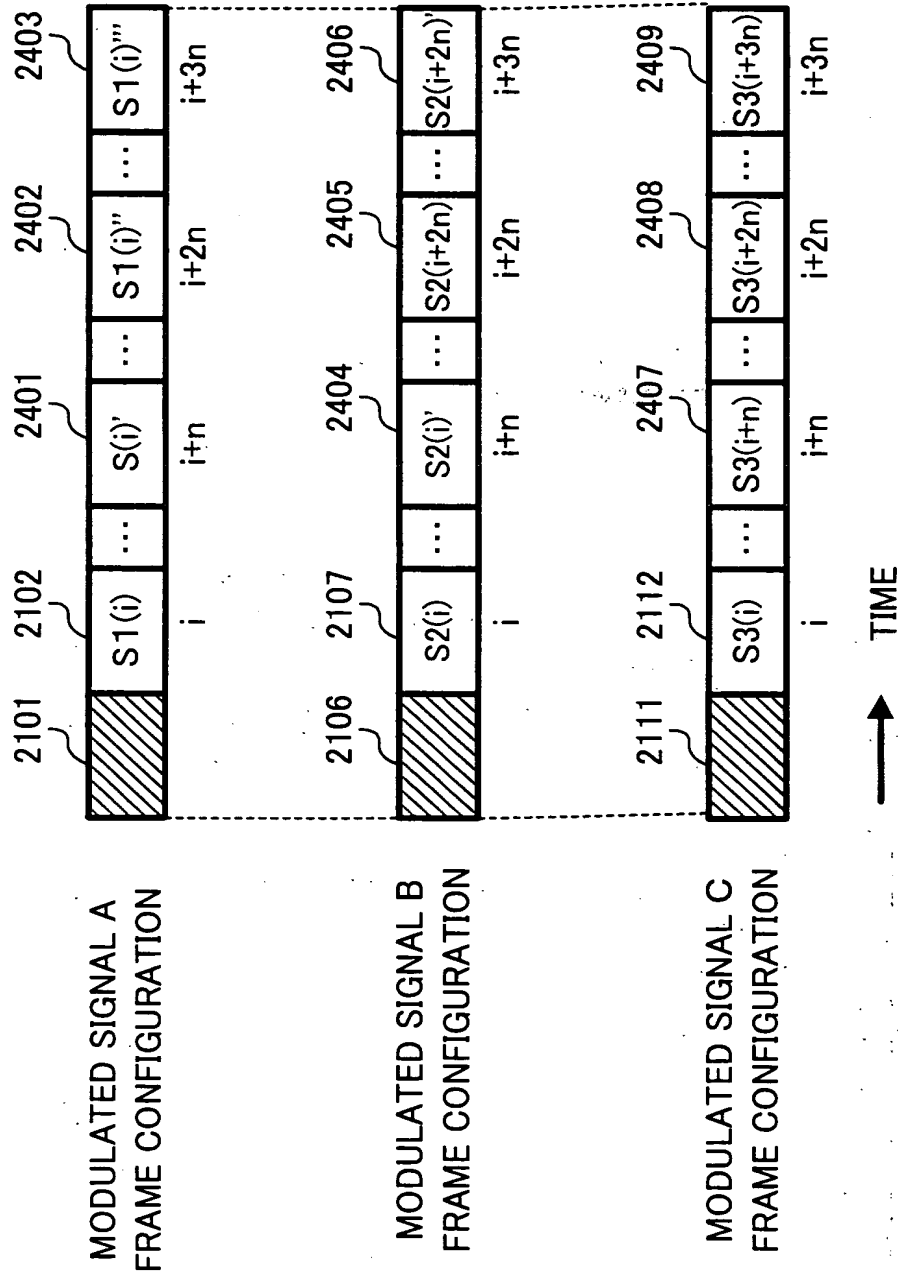


FIG.25

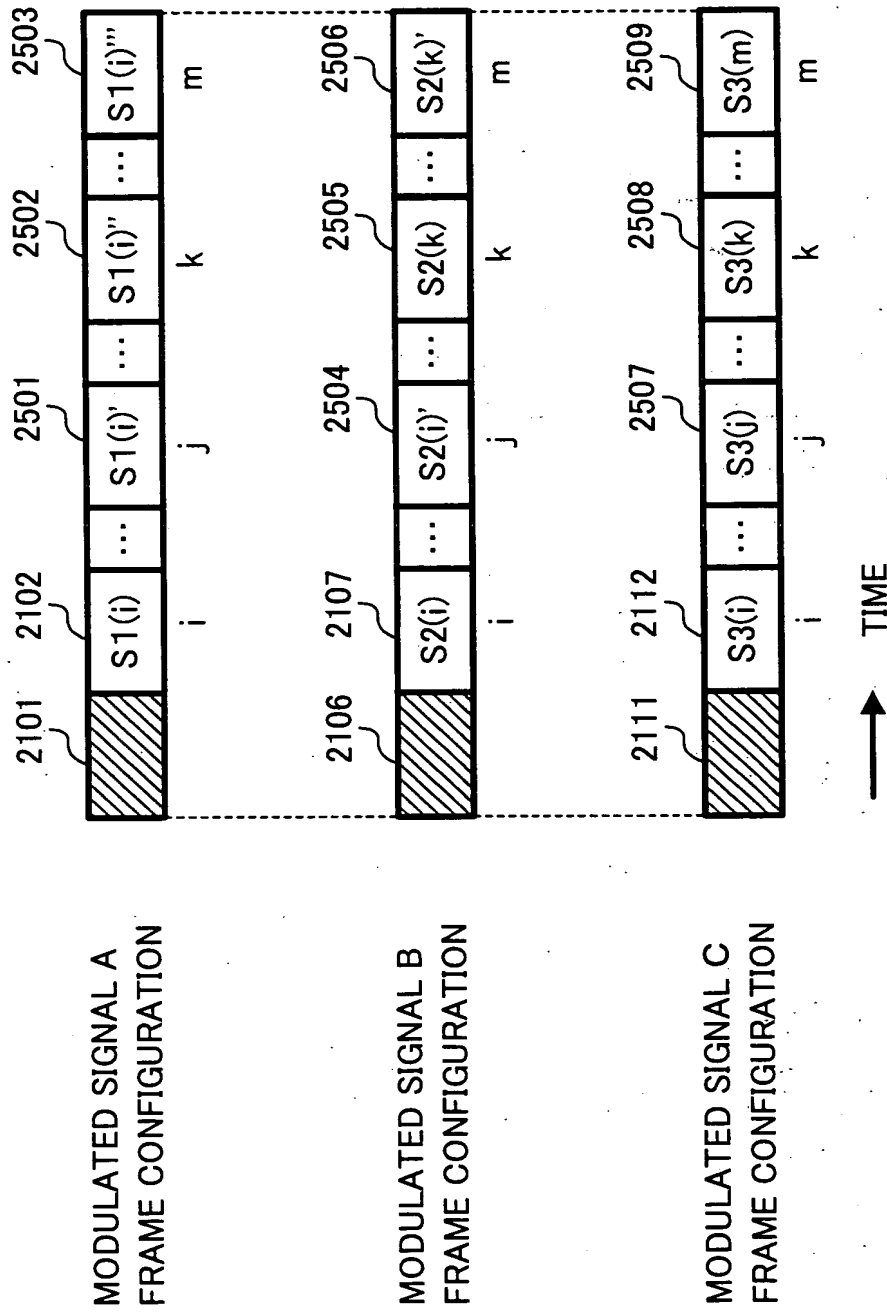


FIG.26

2600 TRANSMITTING APPARATUS

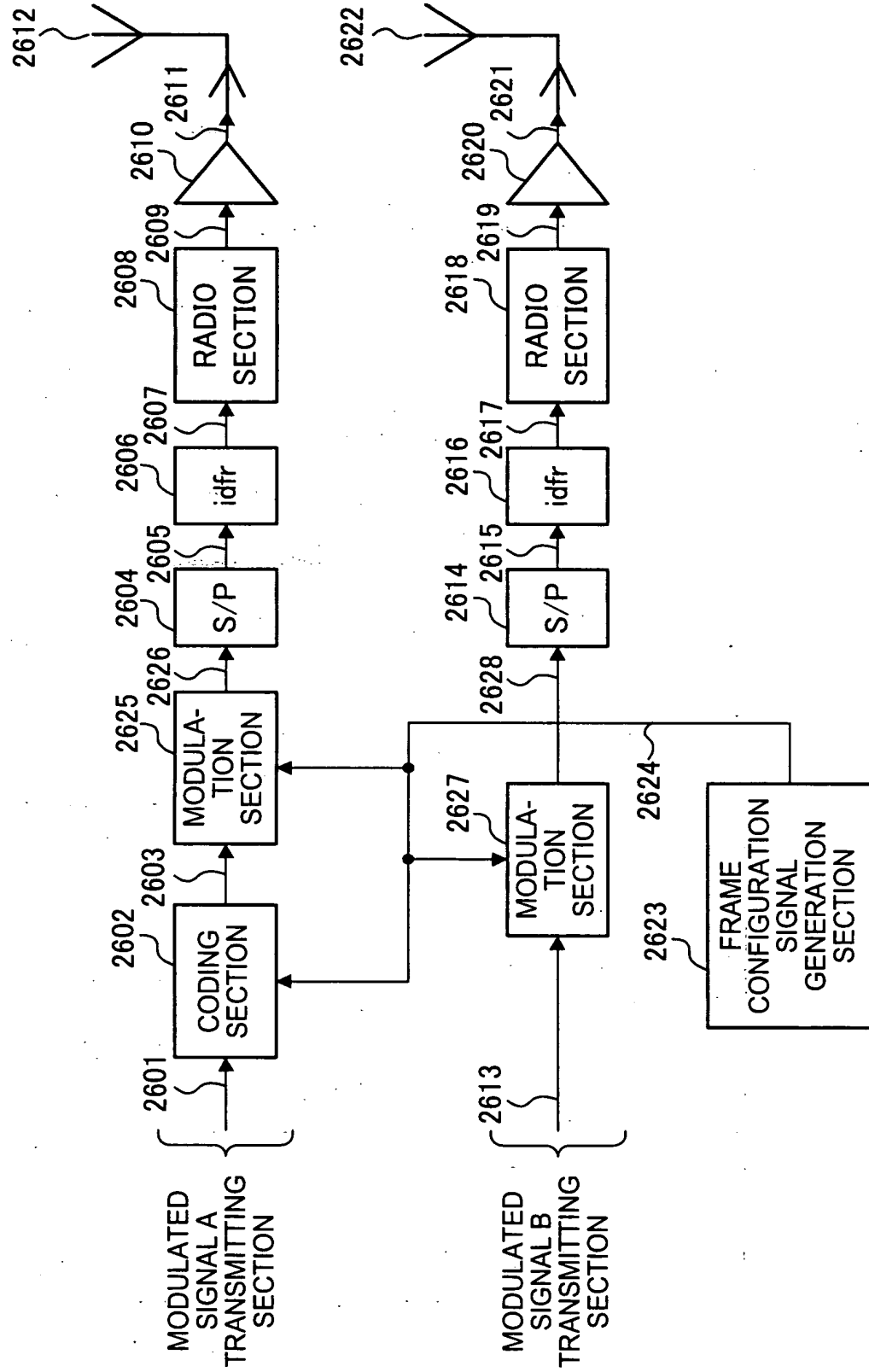


FIG.27

2700 RECEIVING APPARATUS

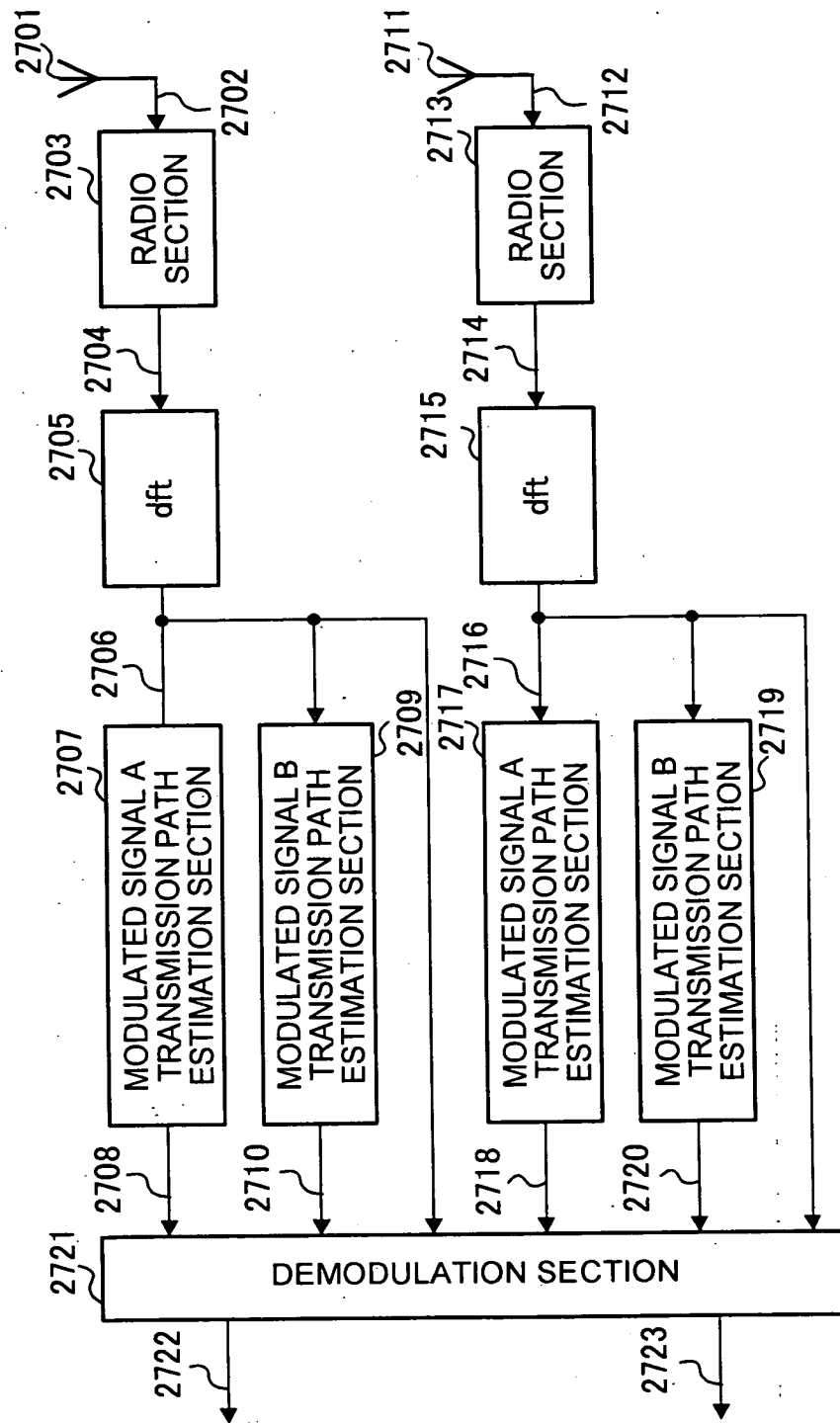


FIG.28

FIG.29A

MODULATED SIGNAL A
FRAME CONFIGURATION

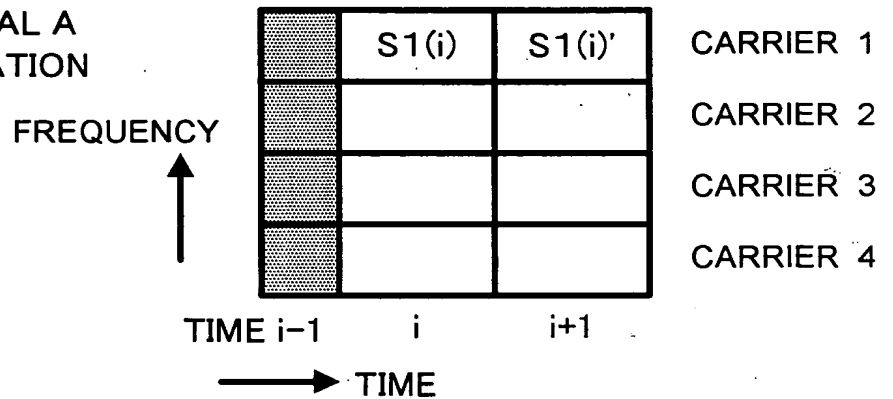
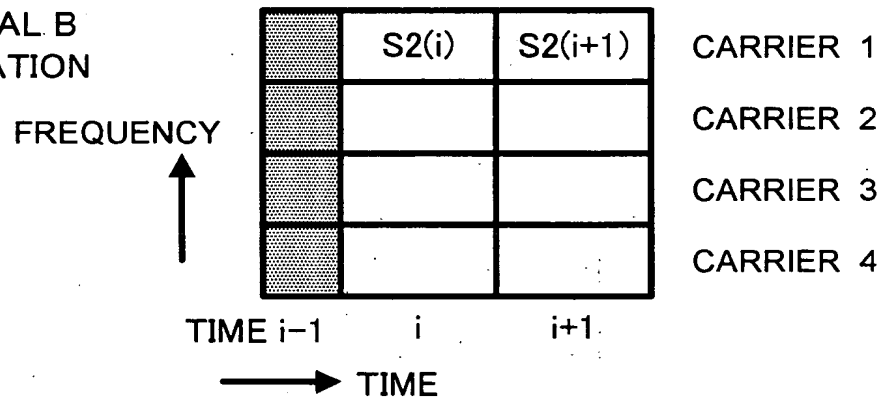


FIG.29B

MODULATED SIGNAL B
FRAME CONFIGURATION



-  2801 : RADIO WAVE PROPAGATION
ENVIRONMENT ESTIMATION SYMBOL
 2802 : DATA SYMBOL

FIG.30A

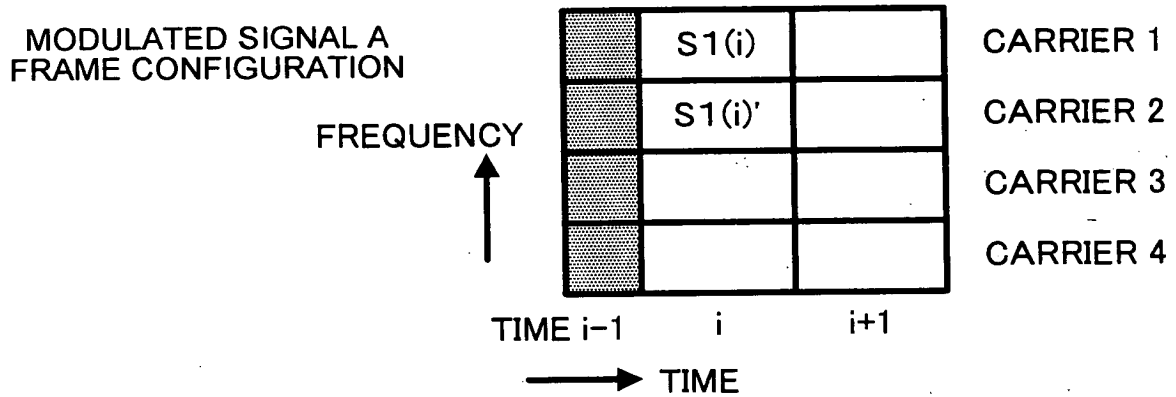
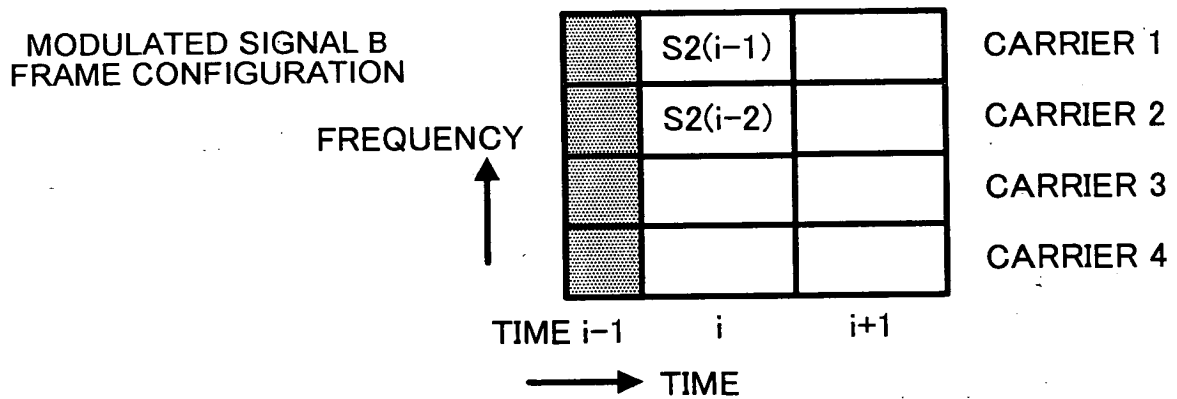


FIG.30B



■ 2801 : RADIO WAVE PROPAGATION
ENVIRONMENT ESTIMATION SYMBOL

□ 2802 : DATA SYMBOL

FIG.31A

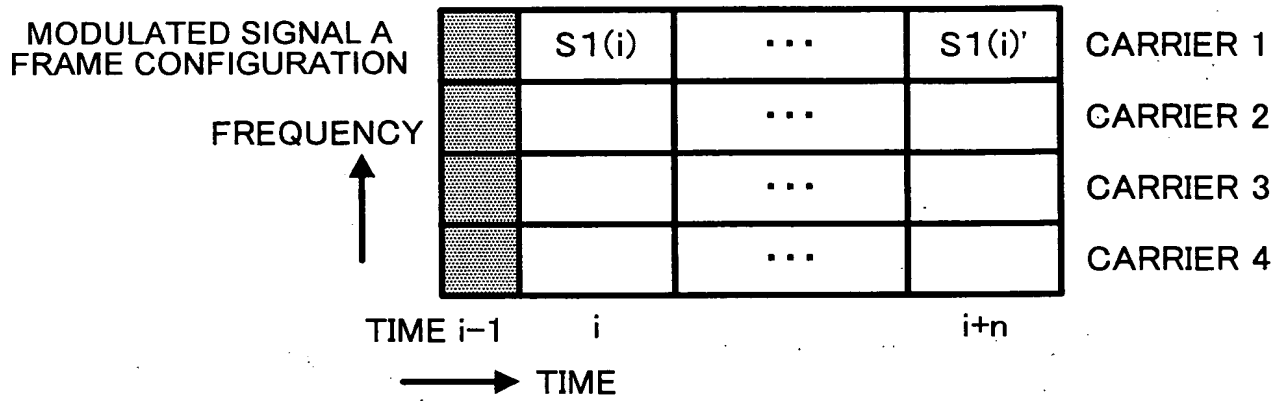
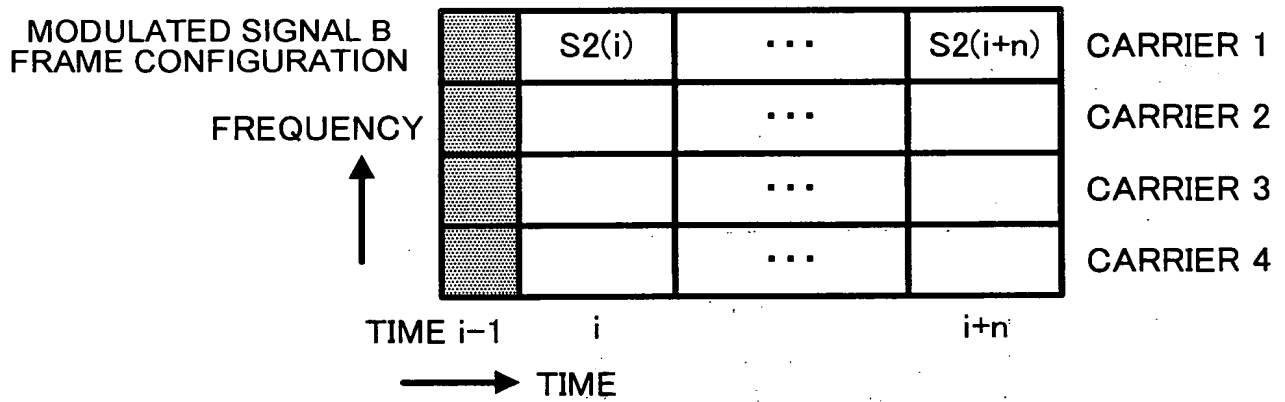


FIG.31B



2801 : RADIO WAVE PROPAGATION
ENVIRONMENT ESTIMATION SYMBOL

2802 : DATA SYMBOL

FIG.32A

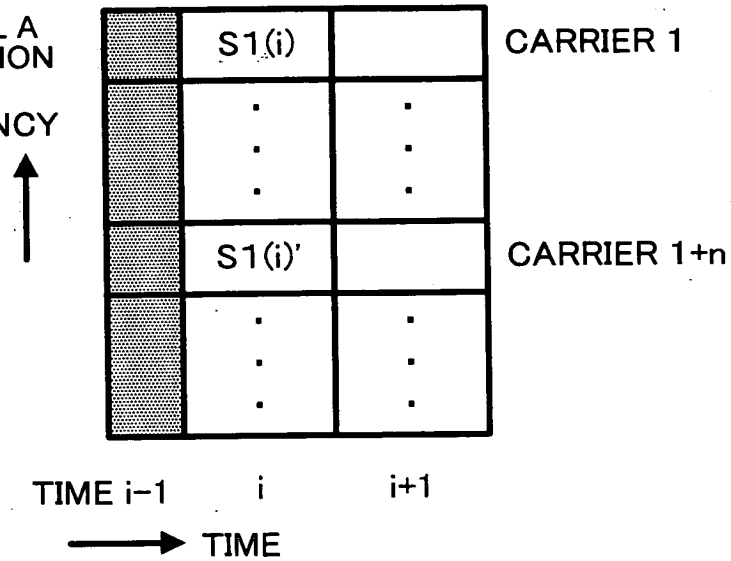
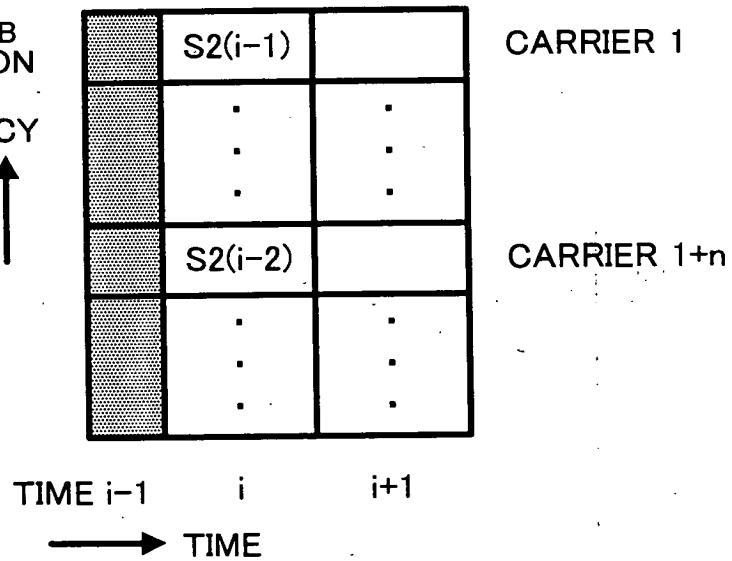
MODULATED SIGNAL A
FRAME CONFIGURATIONFREQUENCY
↑

FIG.32B

MODULATED SIGNAL B
FRAME CONFIGURATIONFREQUENCY
↑

2801 : RADIO WAVE PROPAGATION
ENVIRONMENT ESTIMATION SYMBOL

2802 : DATA SYMBOL

FIG. 33A

MODULATED SIGNAL A FRAME CONFIGURATION

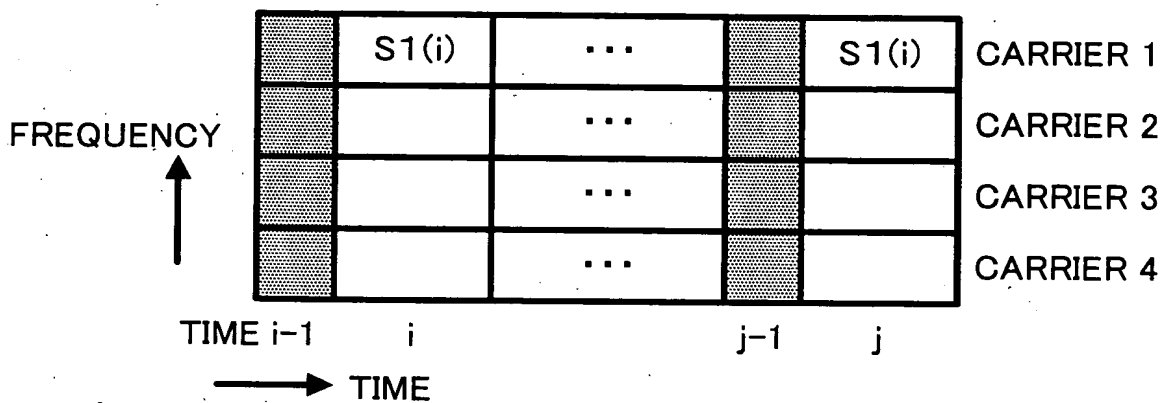
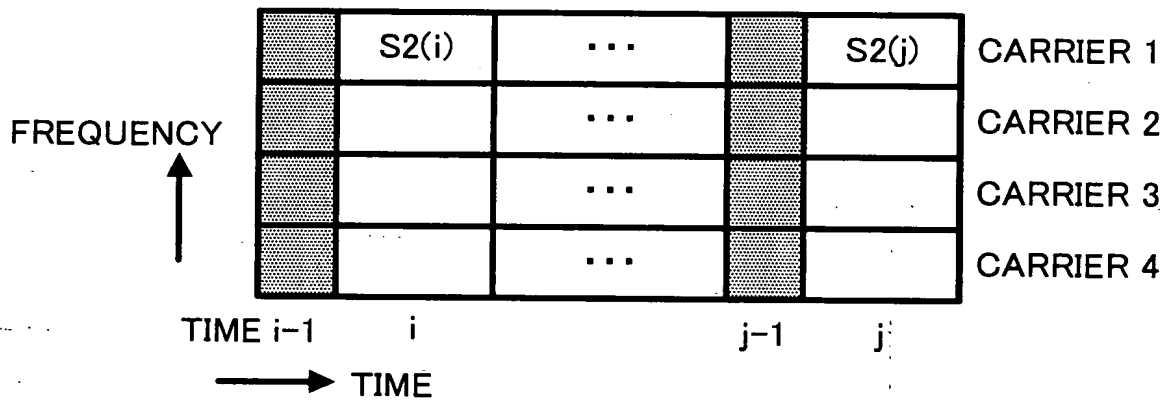


FIG.33B

MODULATED SIGNAL B FRAME CONFIGURATION



 2801 : RADIO WAVE PROPAGATION
ENVIRONMENT ESTIMATION SYMBOL

2802 : DATA SYMBOL

FIG.34A

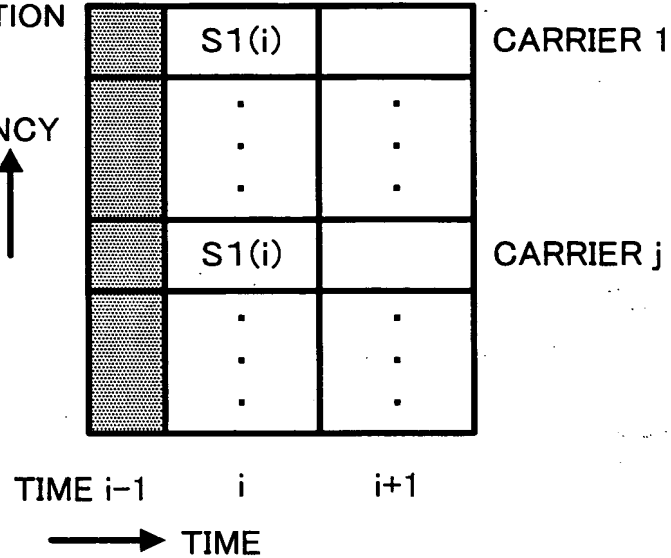
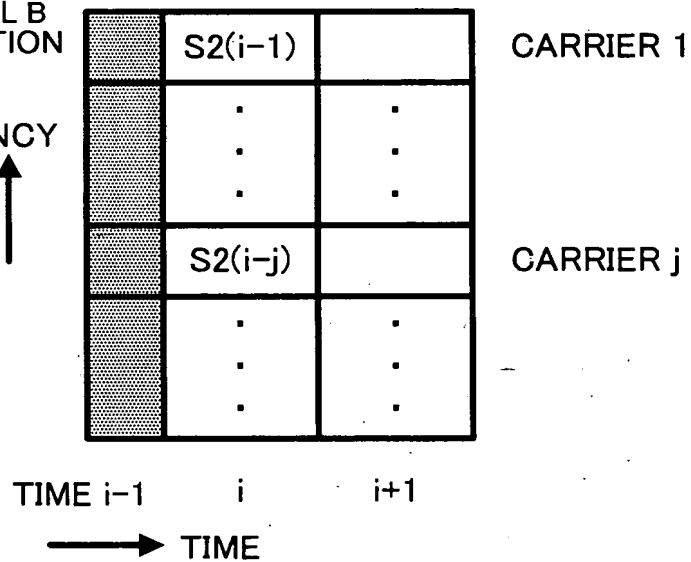
MODULATED SIGNAL A
FRAME CONFIGURATIONFREQUENCY
↑

FIG.34B

MODULATED SIGNAL B
FRAME CONFIGURATIONFREQUENCY
↑

2801 : RADIO WAVE PROPAGATION
ENVIRONMENT ESTIMATION SYMBOL

2802 : DATA SYMBOL

FIG.35A

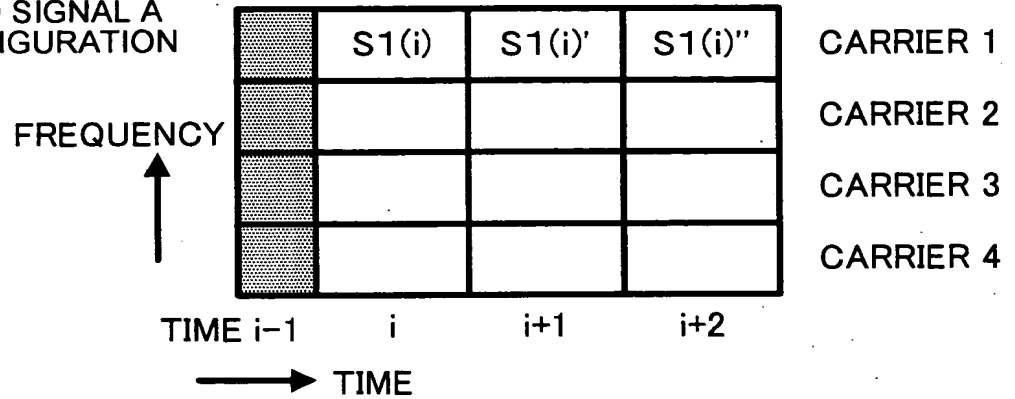
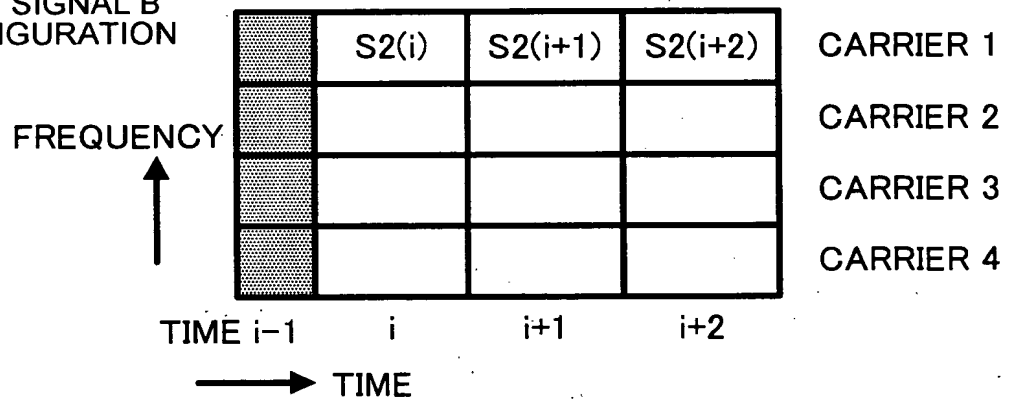
MODULATED SIGNAL A
FRAME CONFIGURATION

FIG.35B

MODULATED SIGNAL B
FRAME CONFIGURATION

2801 : RADIO WAVE PROPAGATION
ENVIRONMENT ESTIMATION SYMBOL

2802 : DATA SYMBOL

FIG.36A

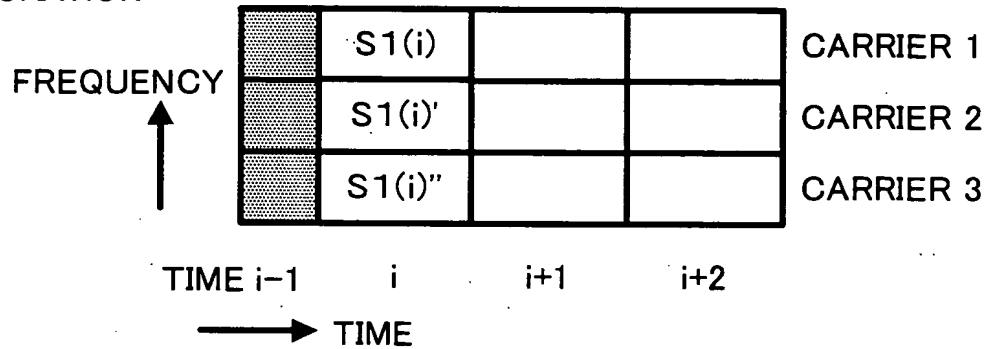
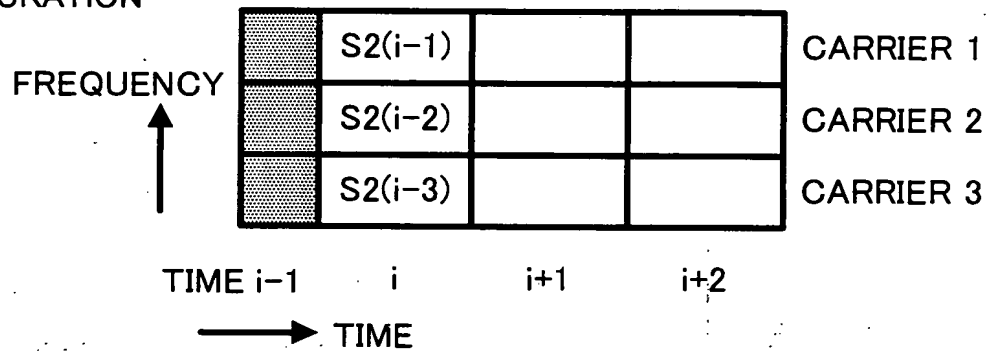
MODULATED SIGNAL A
FRAME CONFIGURATION

FIG.36B

MODULATED SIGNAL B
FRAME CONFIGURATION

2801 : RADIO WAVE PROPAGATION
ENVIRONMENT ESTIMATION SYMBOL

2802 : DATA SYMBOL

FIG.37A

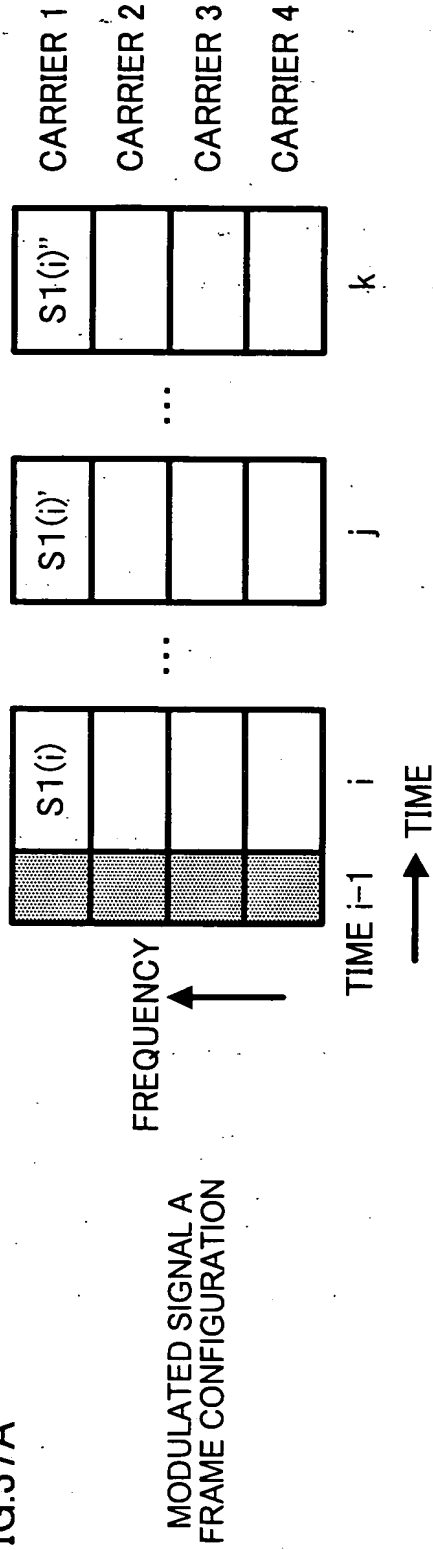


FIG.37B

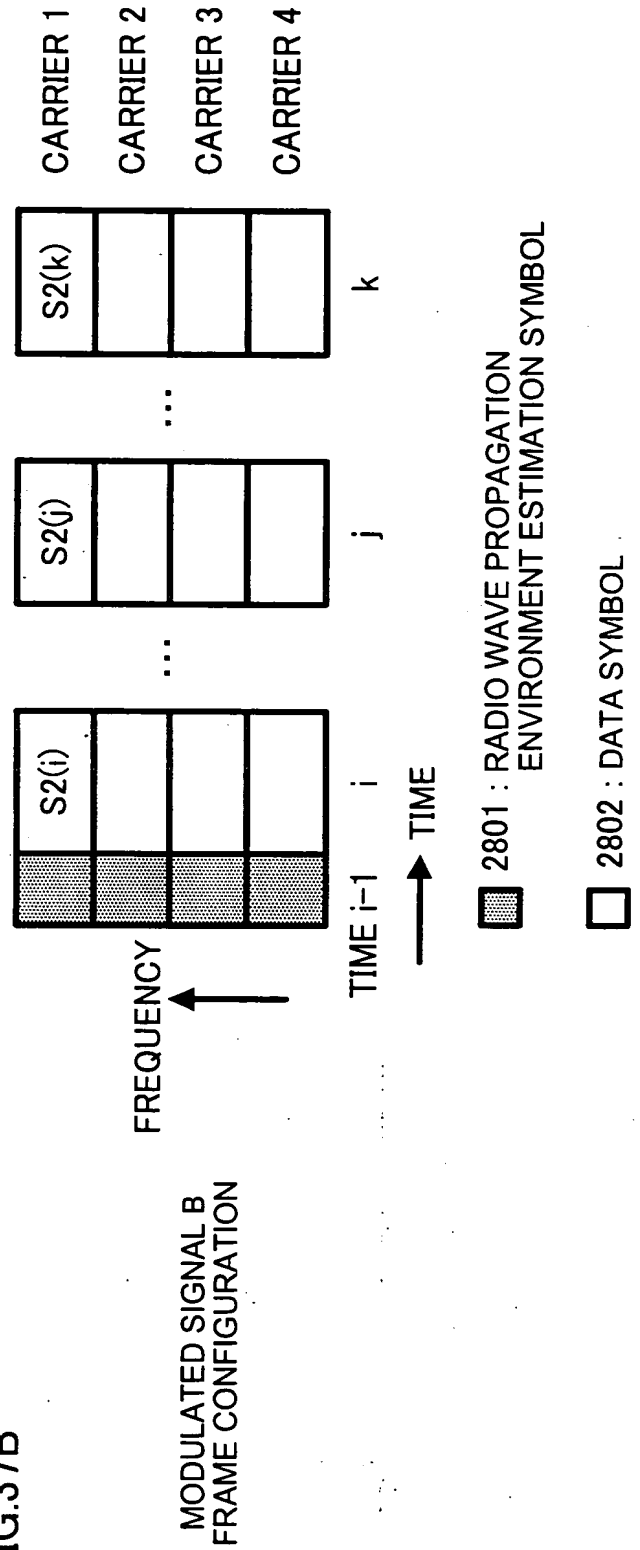


FIG.38A

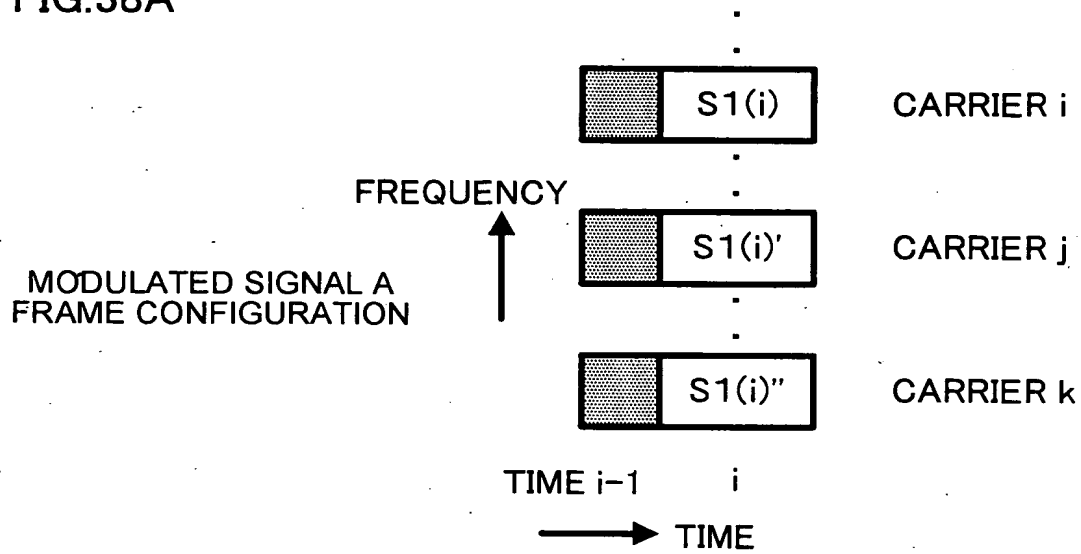
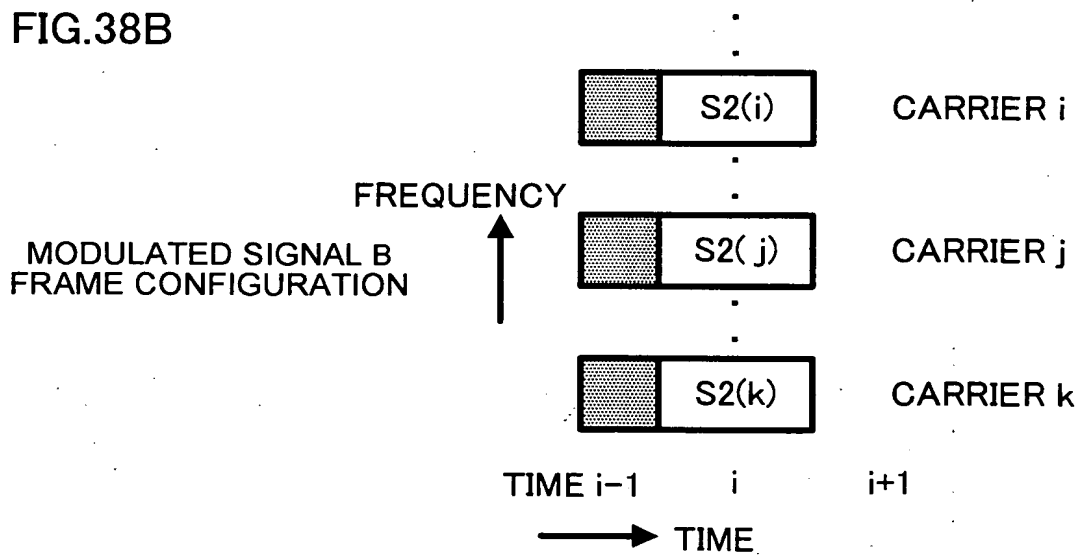


FIG.38B



2801 : RADIO WAVE PROPAGATION
ENVIRONMENT ESTIMATION SYMBOL

2802 : DATA SYMBOL

FIG.39A

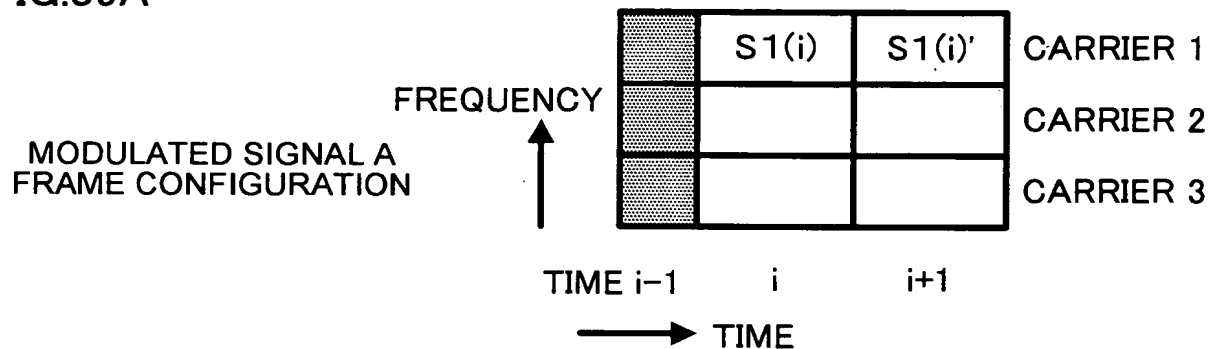


FIG.39B

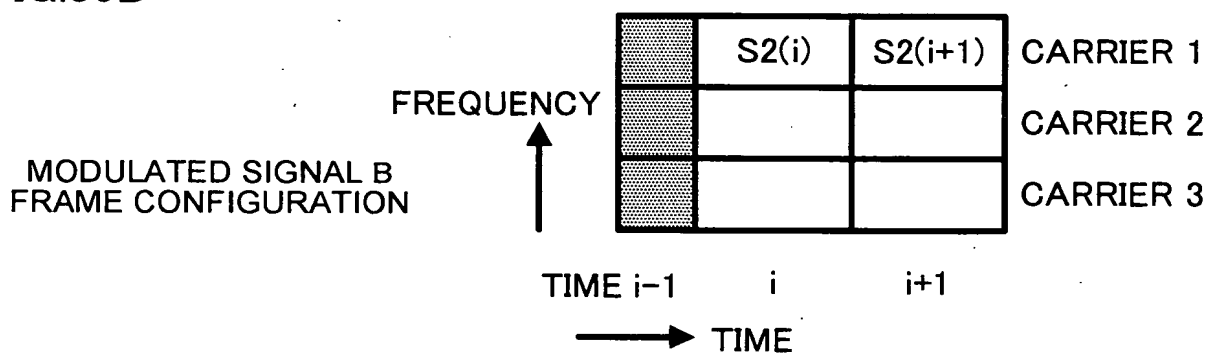
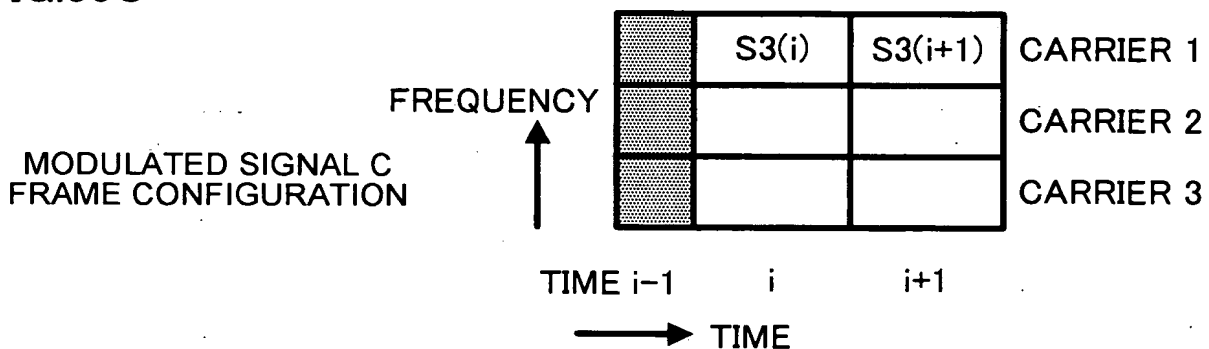


FIG.39C



2801 : RADIO WAVE PROPAGATION
ENVIRONMENT ESTIMATION SYMBOL

2802 : DATA SYMBOL

FIG.40A

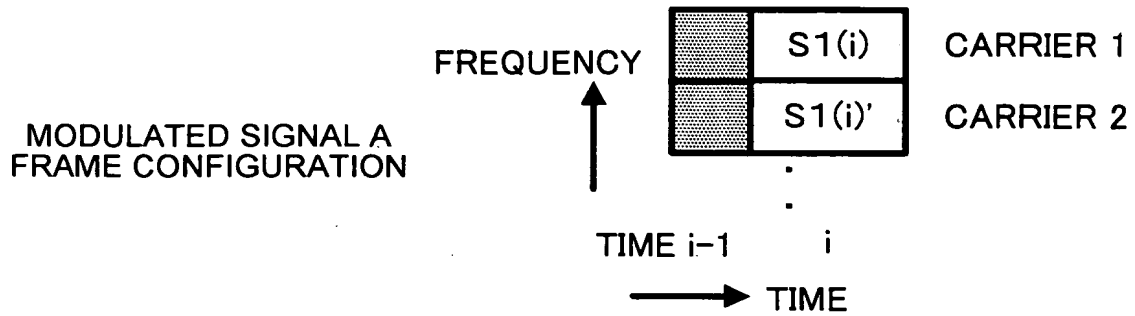


FIG.40B

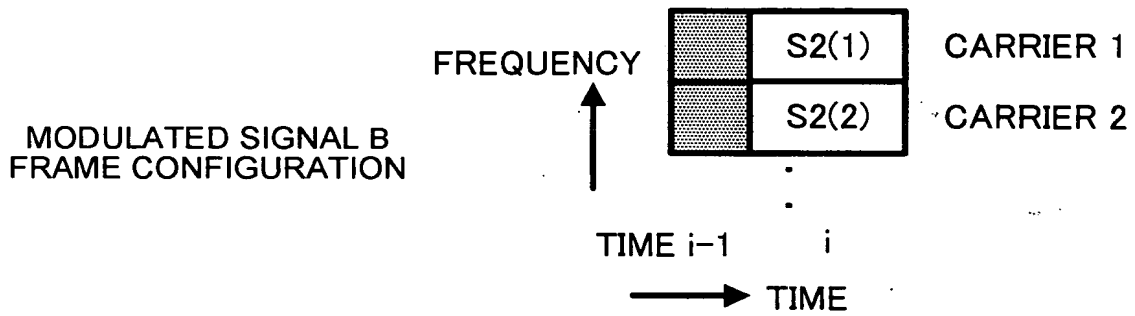
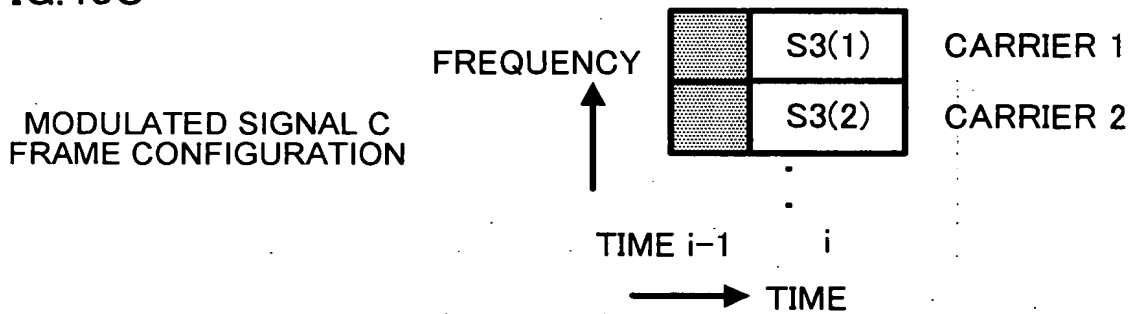


FIG.40C



2801 : RADIO WAVE PROPAGATION
ENVIRONMENT ESTIMATION SYMBOL

2802 : DATA SYMBOL

FIG.41A

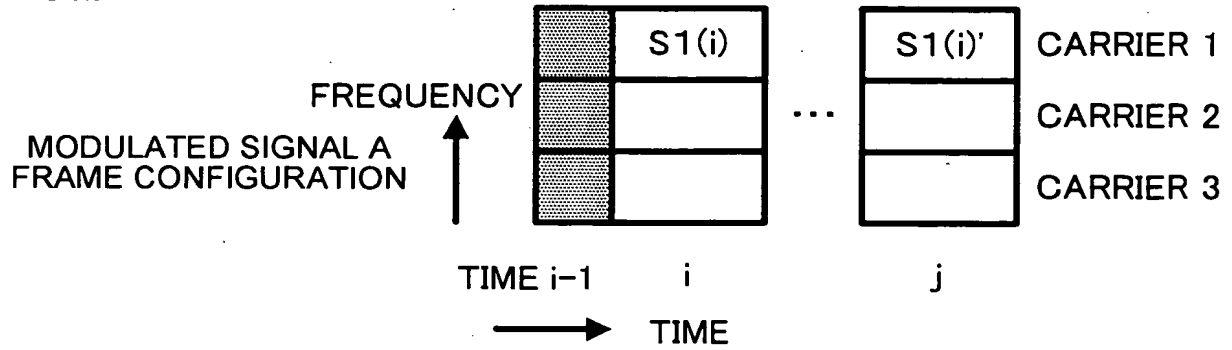


FIG.41B

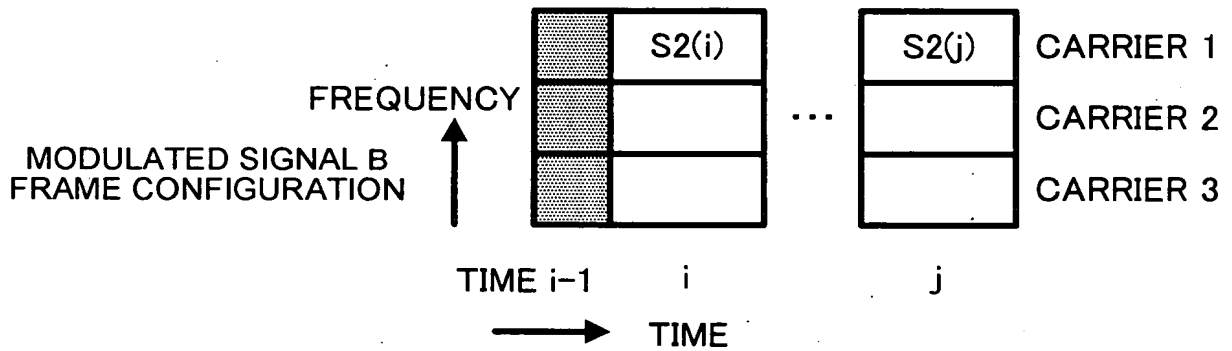
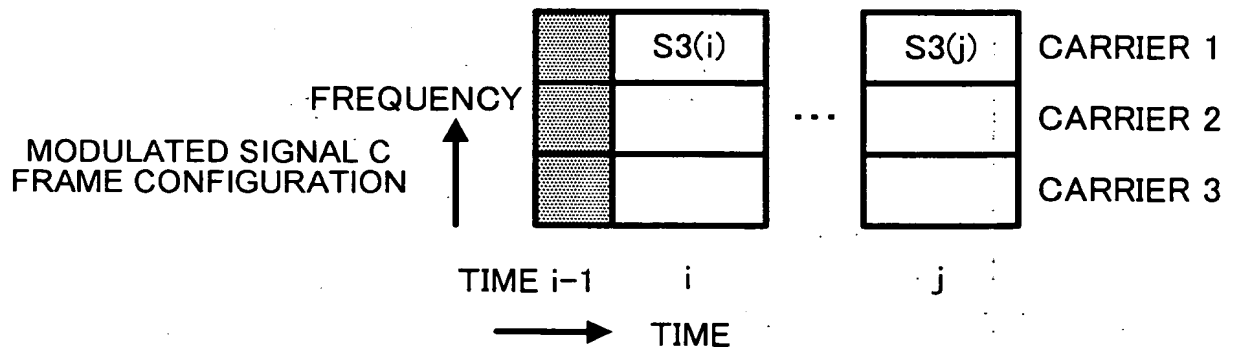


FIG.41C



2801 : RADIO WAVE PROPAGATION
ENVIRONMENT ESTIMATION SYMBOL

2802 : DATA SYMBOL

FIG.42A

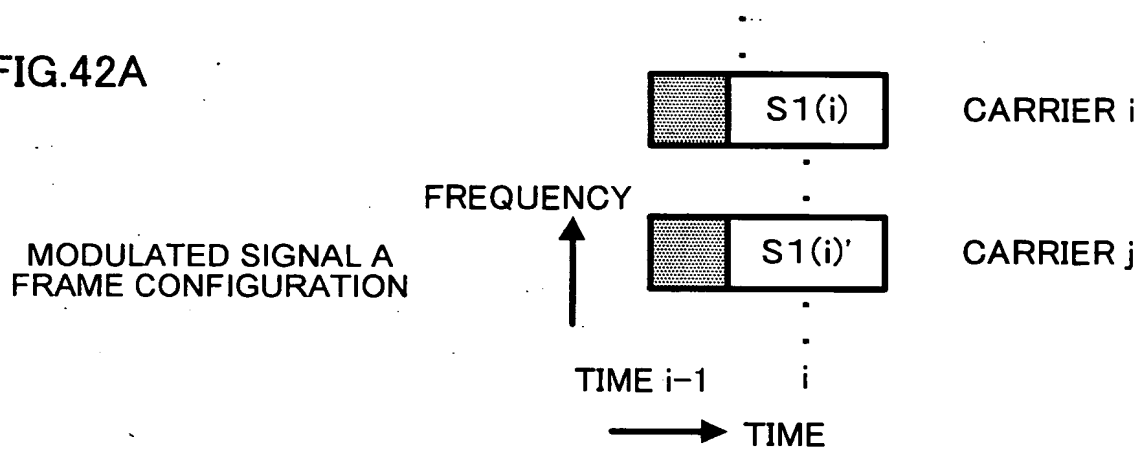


FIG.42B

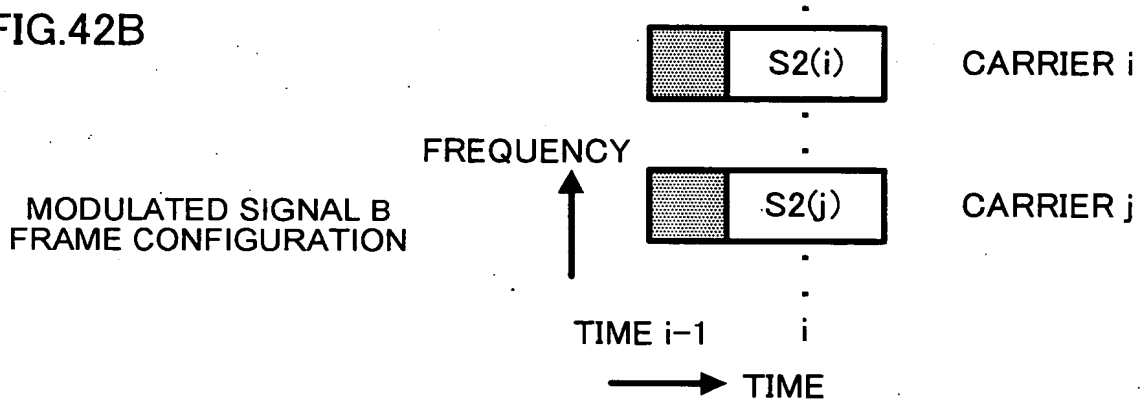
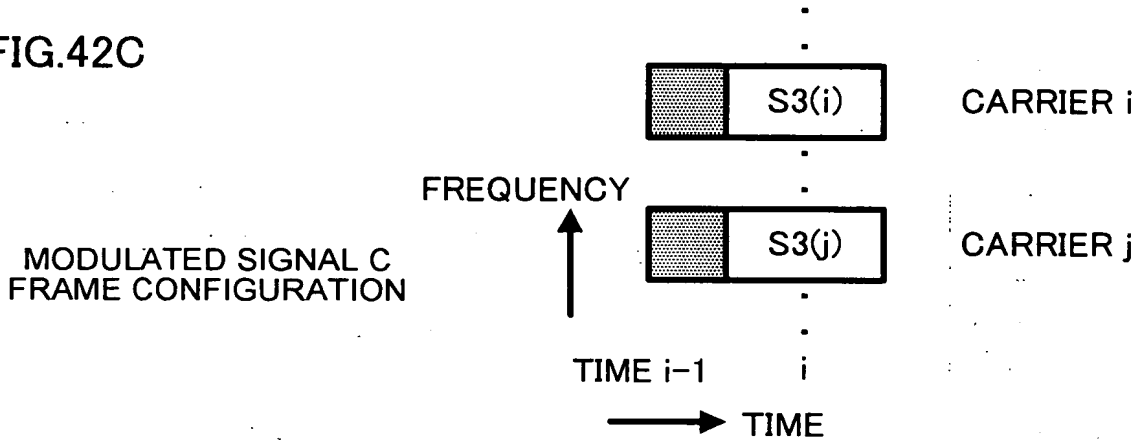


FIG.42C



2801 : RADIO WAVE PROPAGATION
ENVIRONMENT ESTIMATION SYMBOL

2802 : DATA SYMBOL

FIG.43A

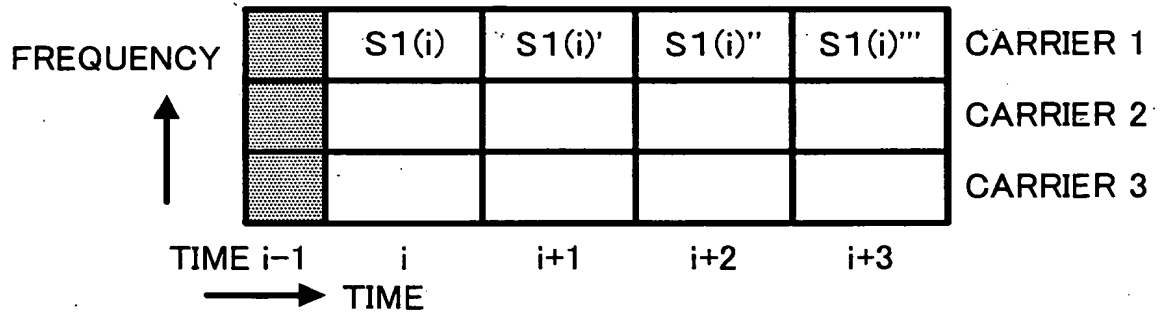
MODULATED SIGNAL A
FRAME CONFIGURATION

FIG.43B

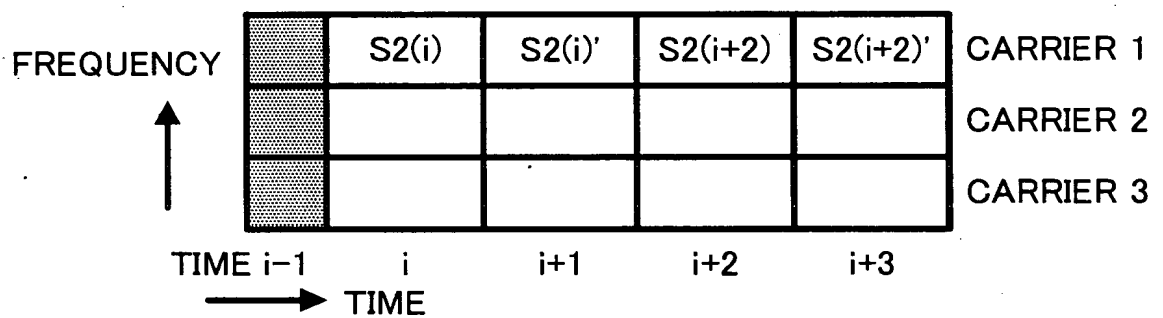
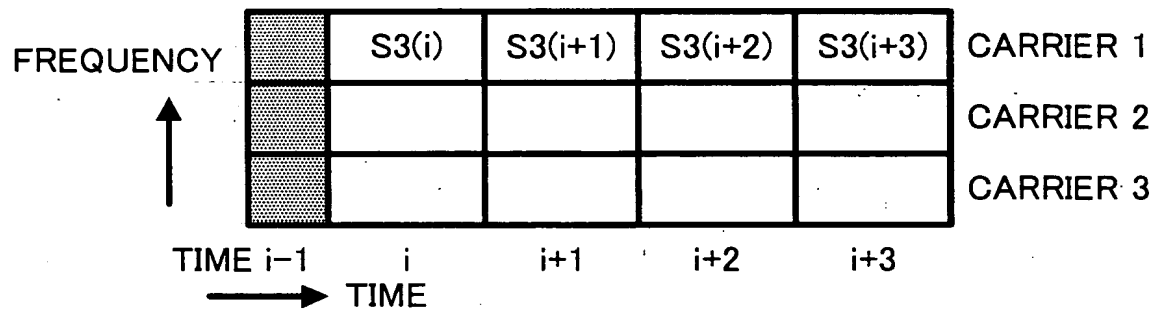
MODULATED SIGNAL B
FRAME CONFIGURATION

FIG.43C

MODULATED SIGNAL C
FRAME CONFIGURATION

2801 : RADIO WAVE PROPAGATION
ENVIRONMENT ESTIMATION SYMBOL

2802 : DATA SYMBOL

FIG.44A

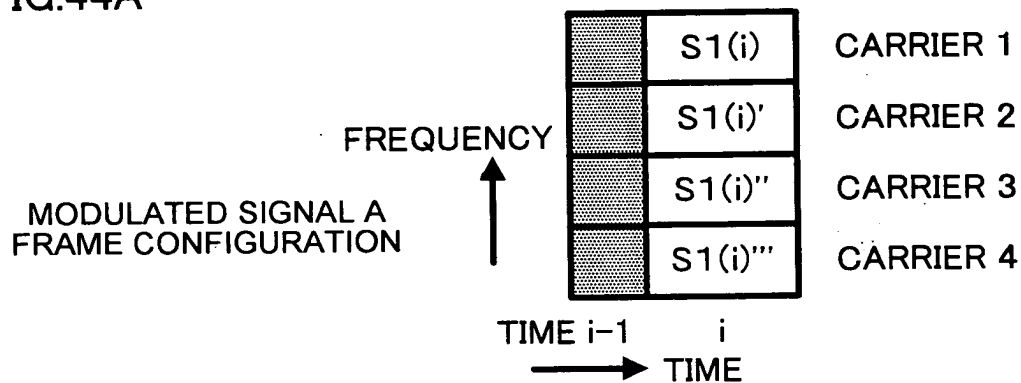


FIG.44B

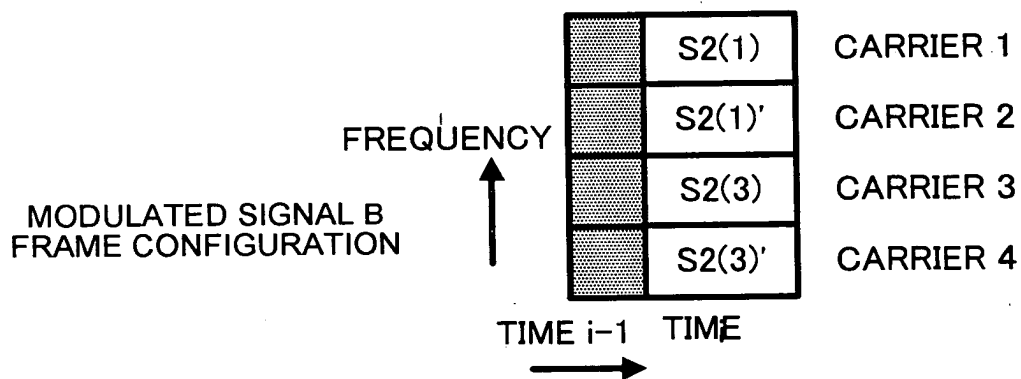
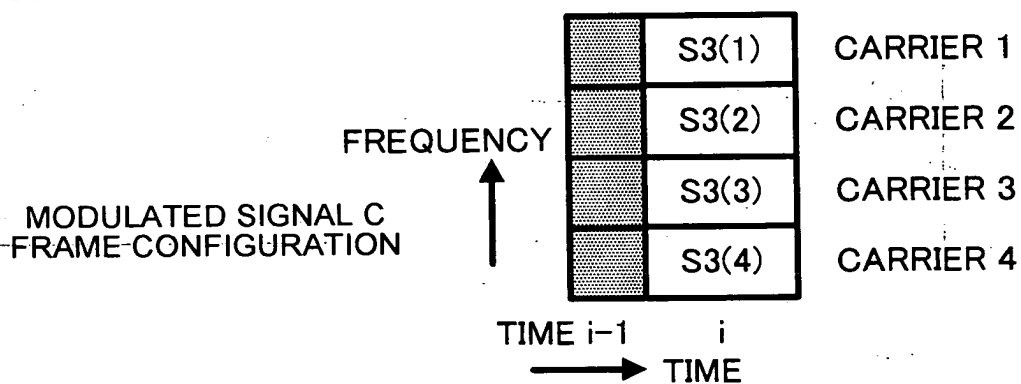


FIG.44C



■ 2801 : RADIO WAVE PROPAGATION
ENVIRONMENT ESTIMATION SYMBOL

□ 2802 : DATA SYMBOL

FIG.45A

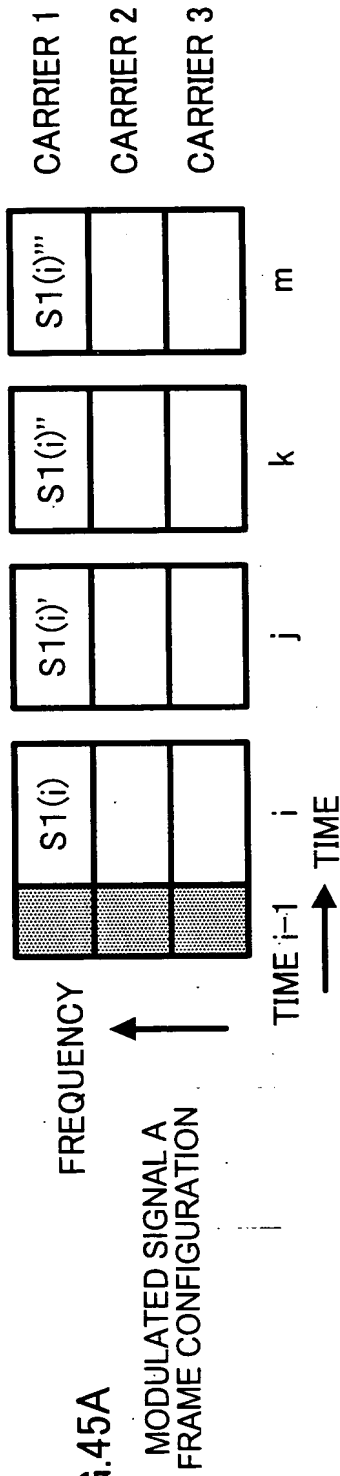


FIG.45B

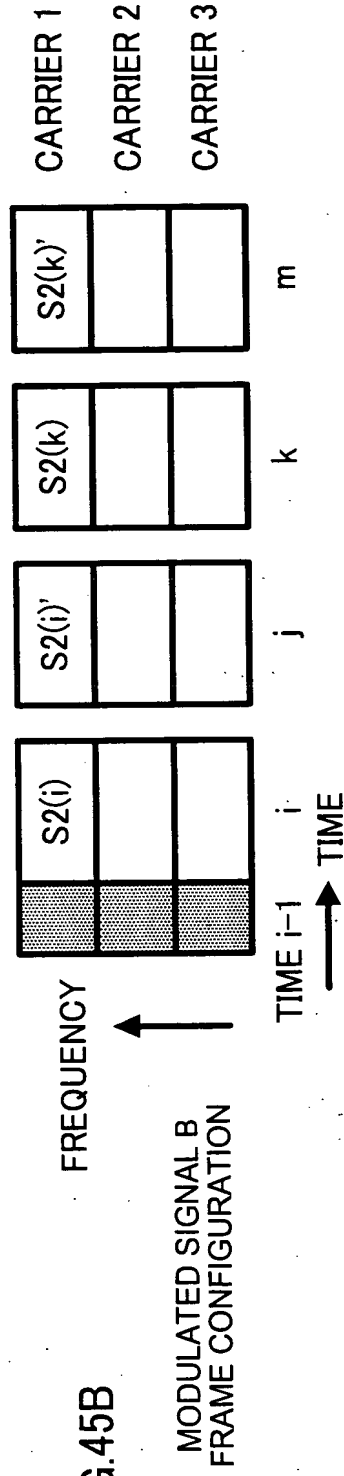
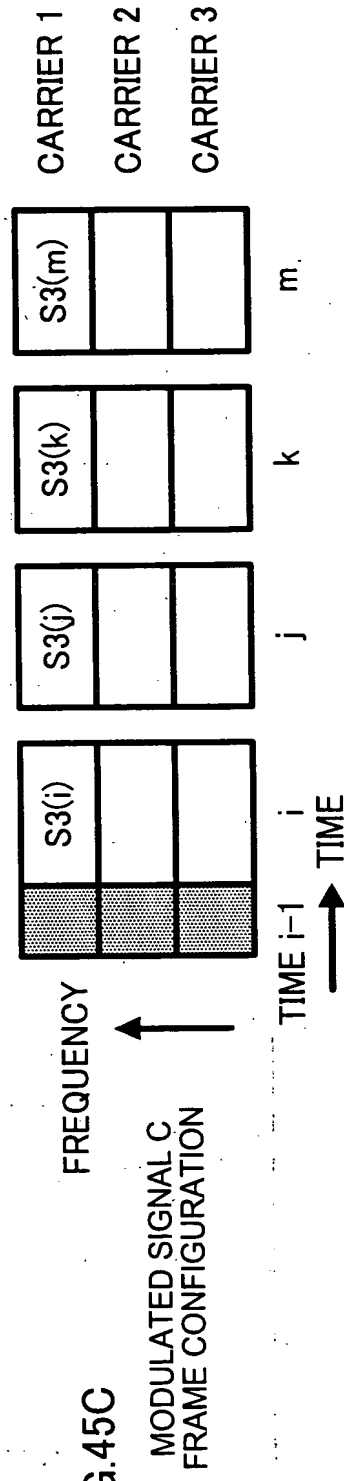


FIG.45C



2801 : RADIO WAVE PROPAGATION
ENVIRONMENT ESTIMATION SYMBOL

2802 : DATA SYMBOL

FIG.46A

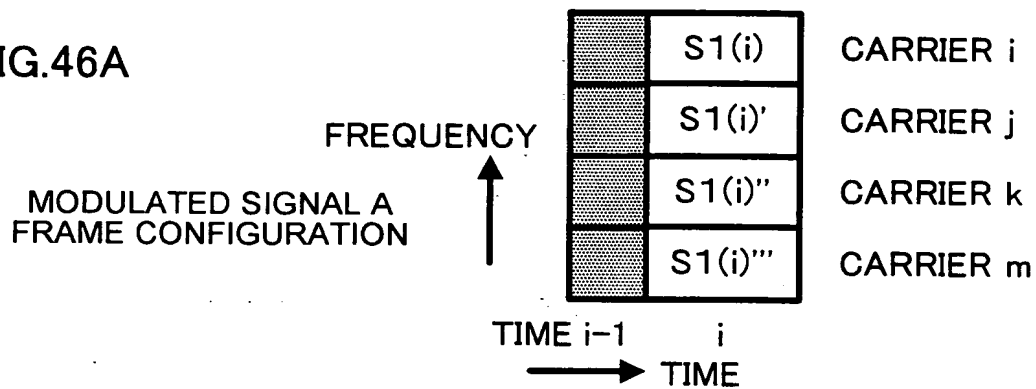


FIG.46B

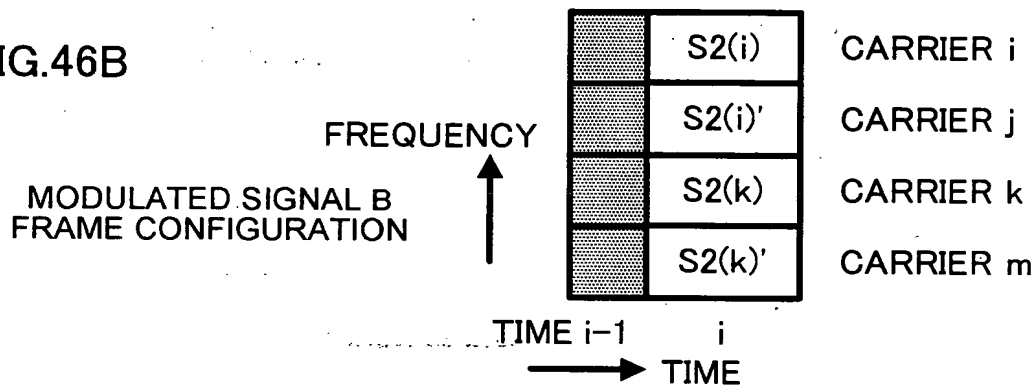
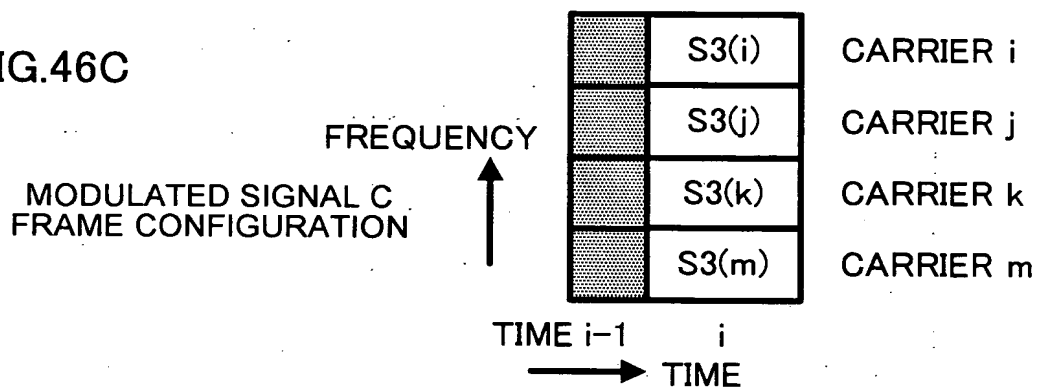


FIG.46C



2801 : RADIO WAVE PROPAGATION
ENVIRONMENT ESTIMATION SYMBOL

2802 : DATA SYMBOL

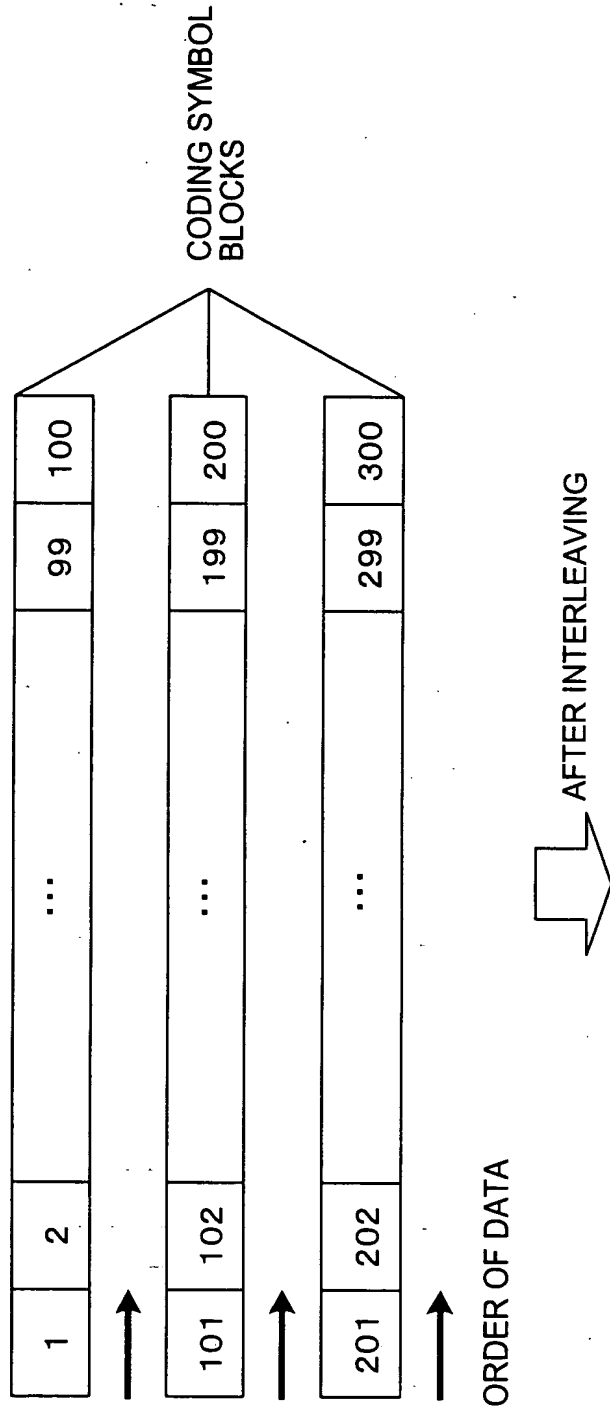


FIG.47A

AFTER INTERLEAVING

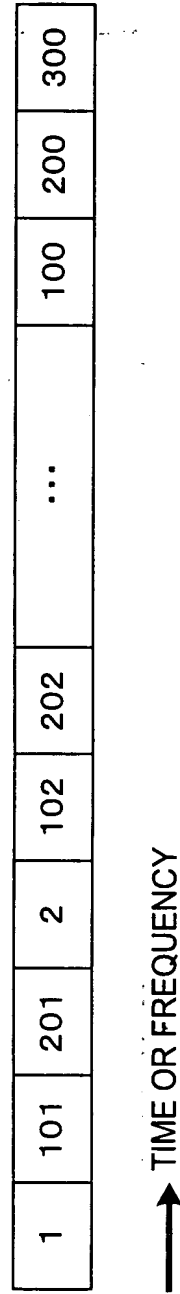


FIG.47B

FIG.48A

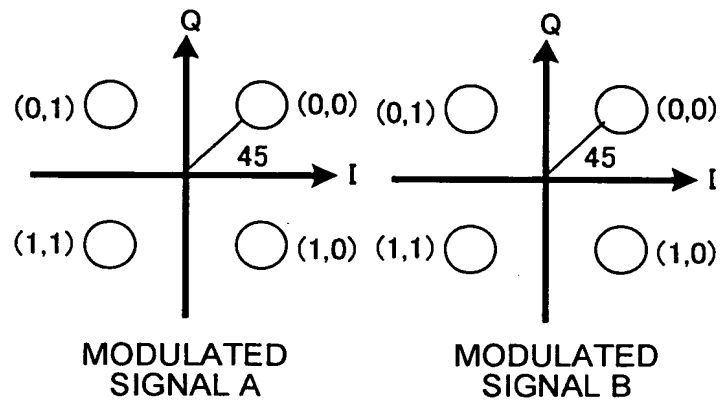


FIG.48B

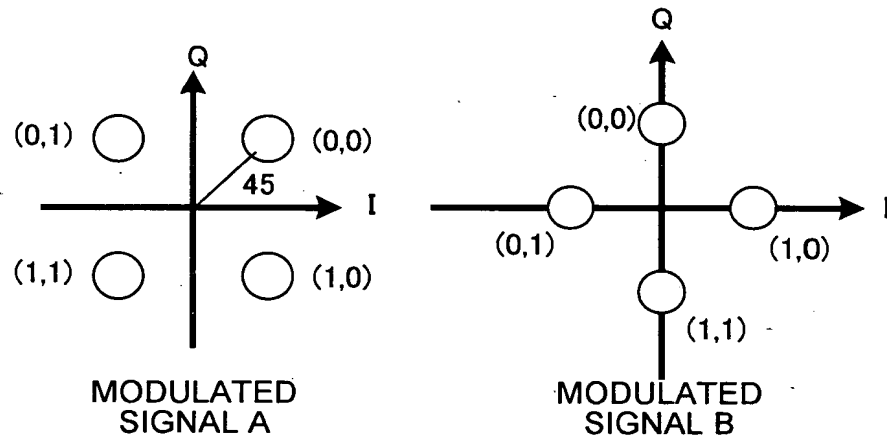
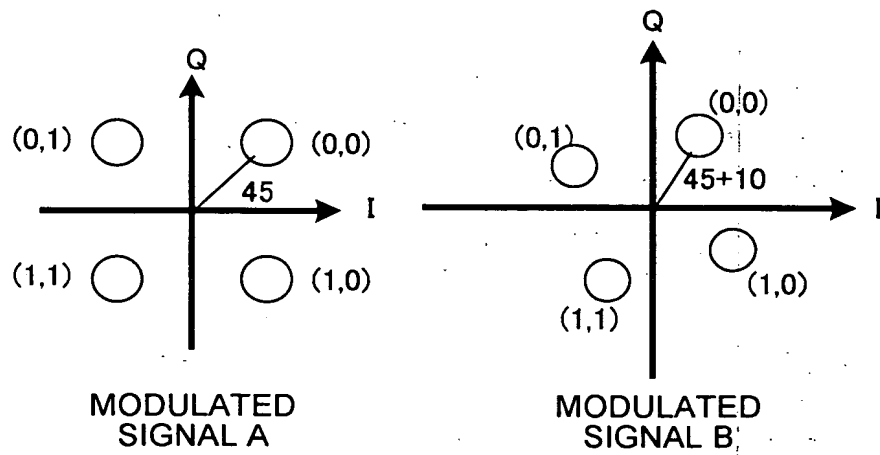


FIG.48C



4800 TRANSMITTING APPARATUS

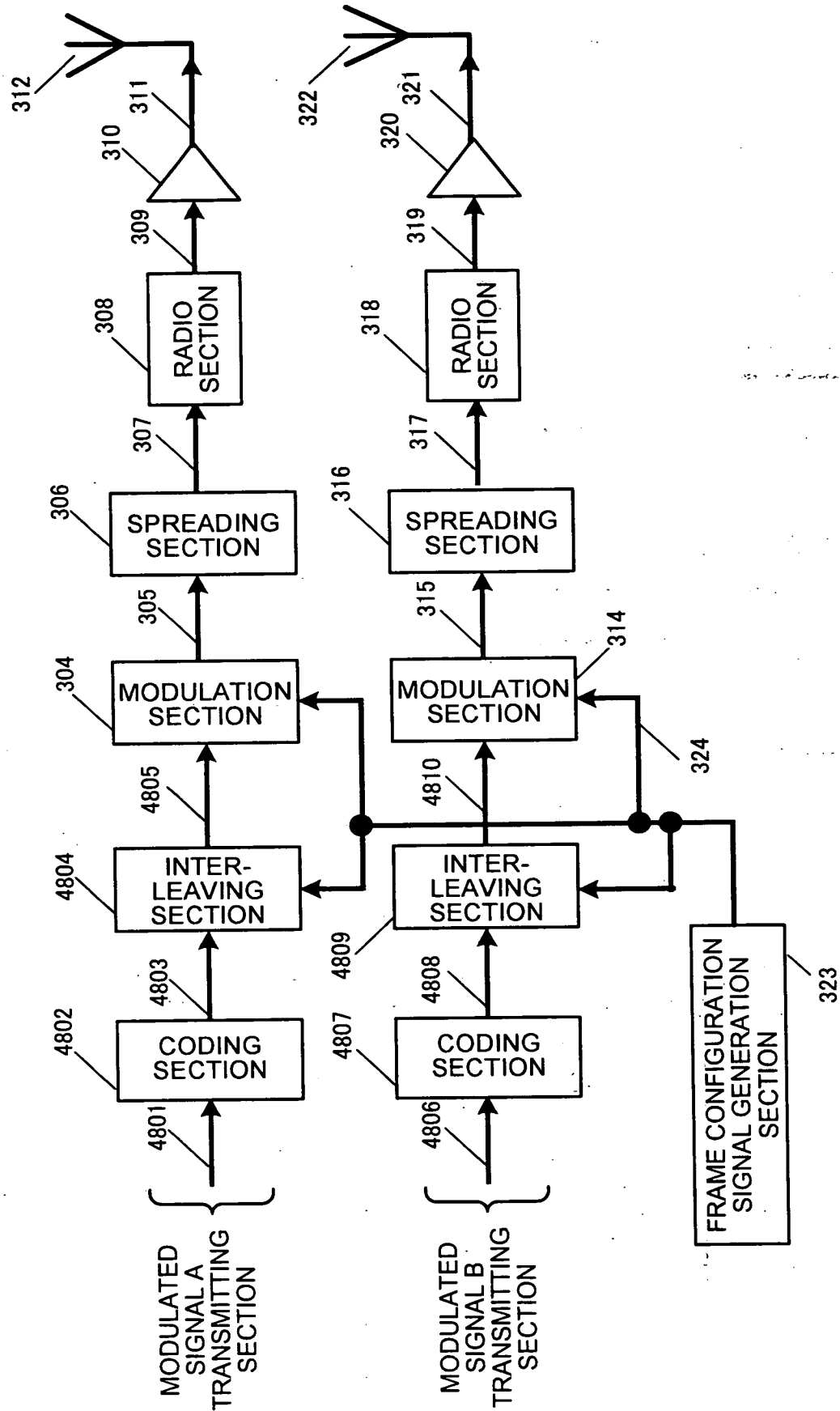


FIG.49

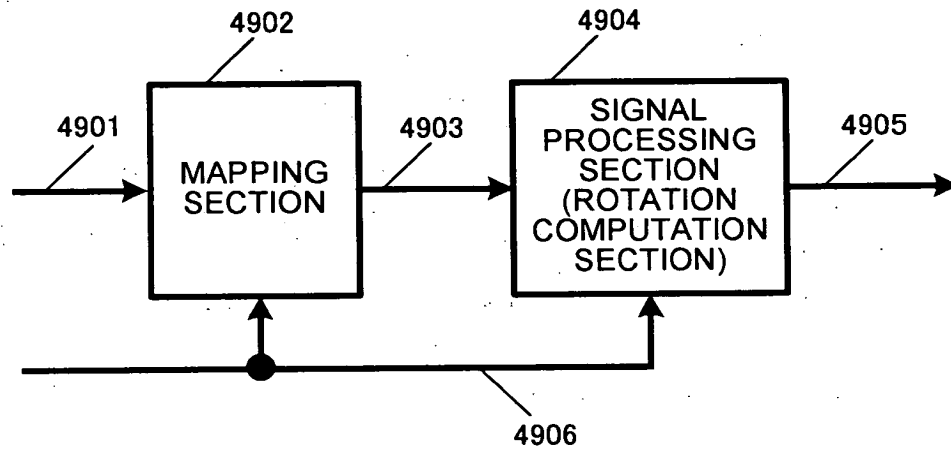
304 MODULATION SECTION

FIG.50

5000 RECEIVING APPARATUS

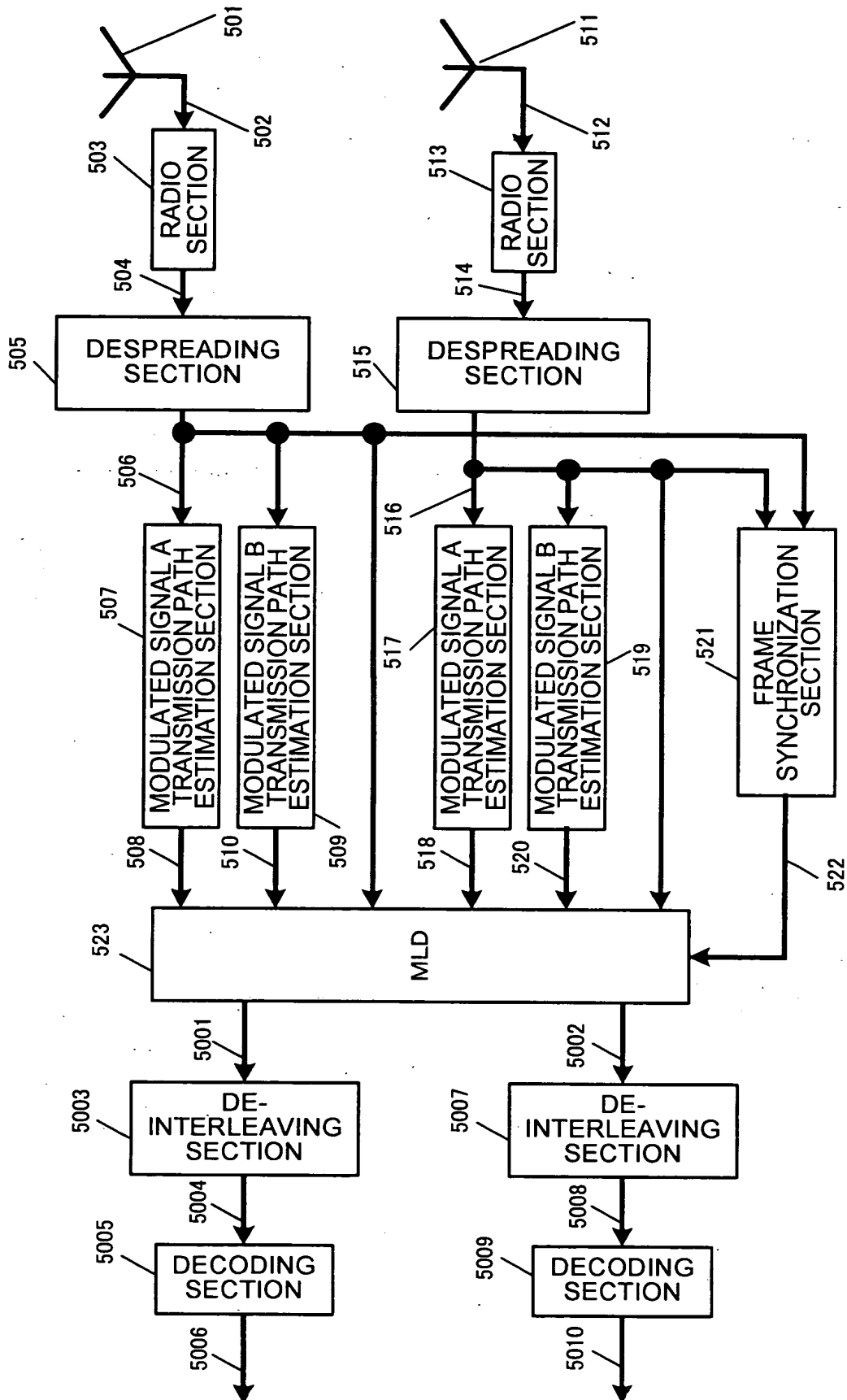


FIG.51

- 5101: SIGNAL POINT OF MODULATED SIGNAL A AND B COMPOSITE SIGNAL
- 5102: SIGNAL POINT IN CASE OF MODULATED SIGNAL A ONLY

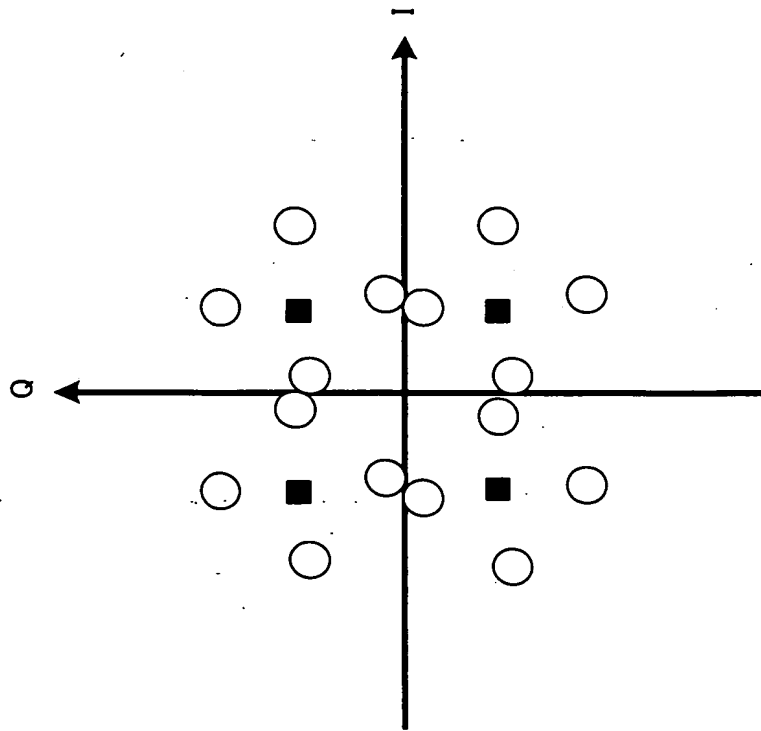


FIG. 52A

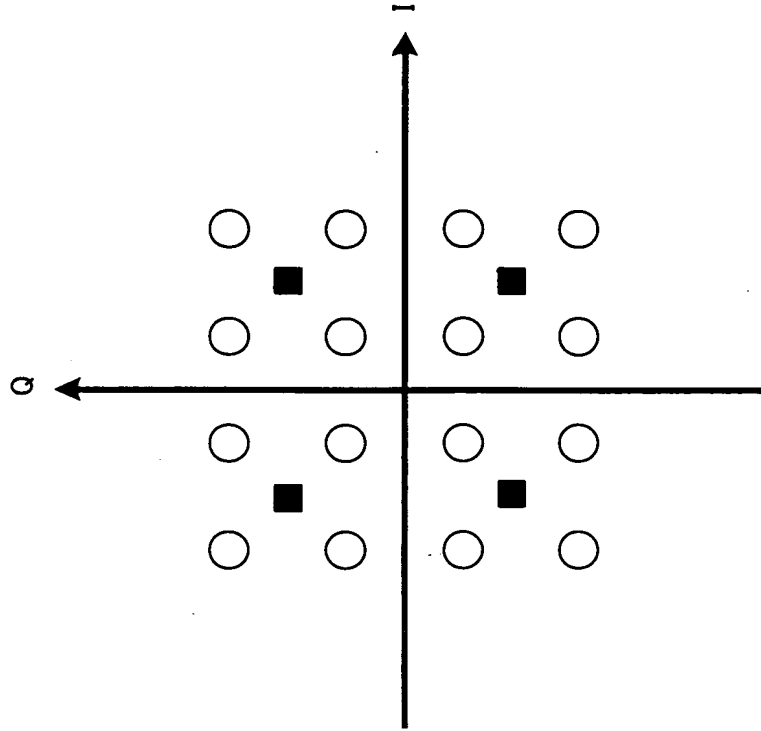
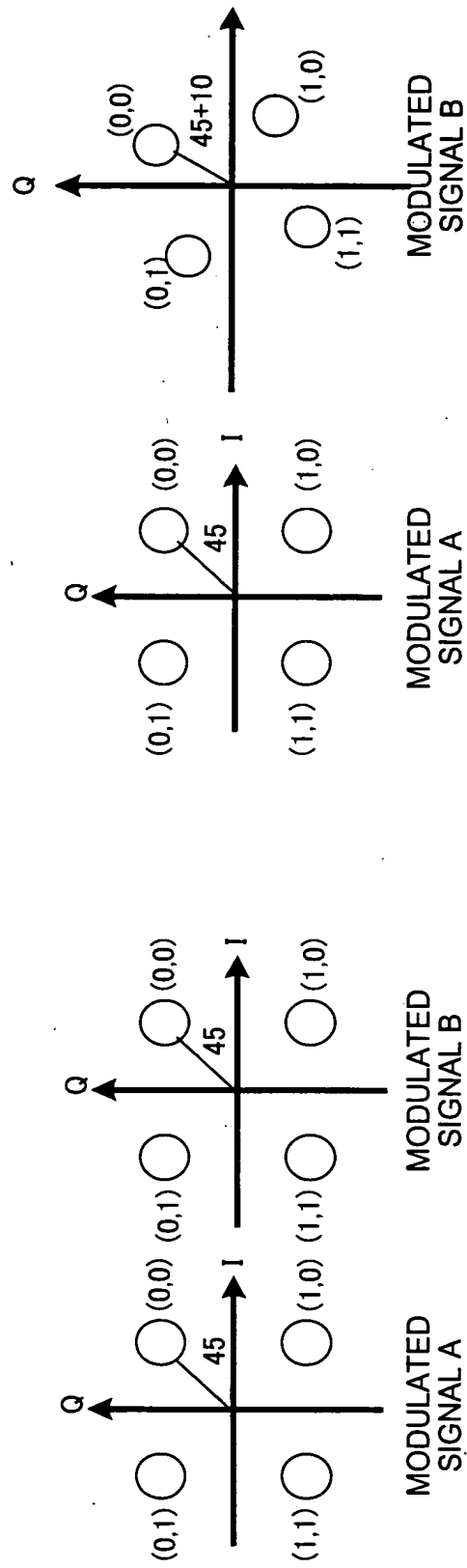
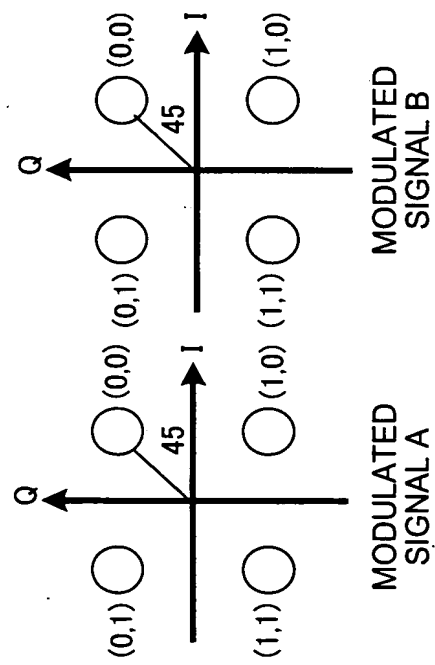


FIG. 52B



SIGNAL POINT
ARRANGEMENTS AT TIME $i+1$

FIG.53B



SIGNAL POINT
ARRANGEMENTS AT TIME i

FIG.53A

- 5101: SIGNAL POINT OF MODULATED SIGNAL A AND B COMPOSITE SIGNAL
- 5102: SIGNAL POINT IN CASE OF MODULATED SIGNAL A ONLY

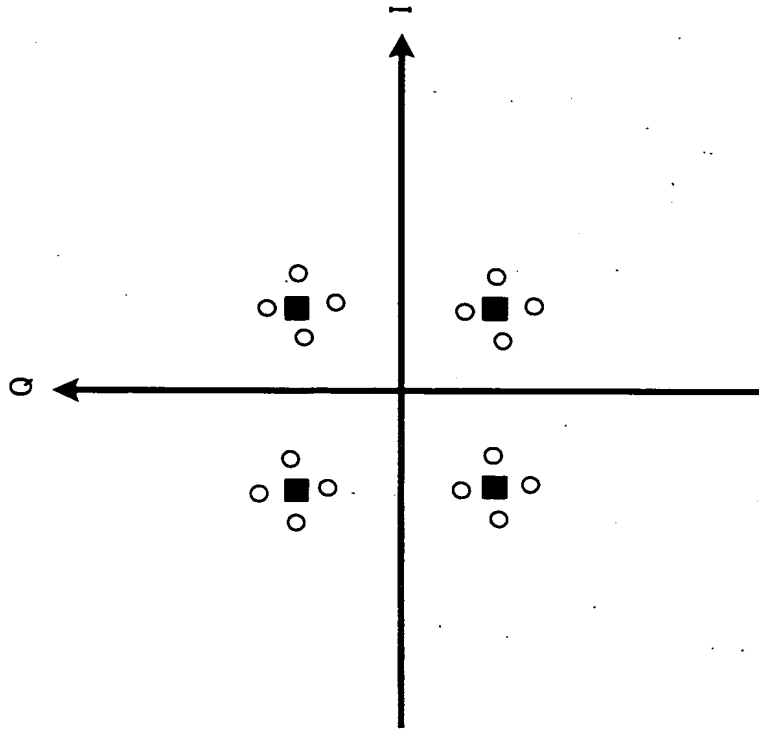


FIG. 54A

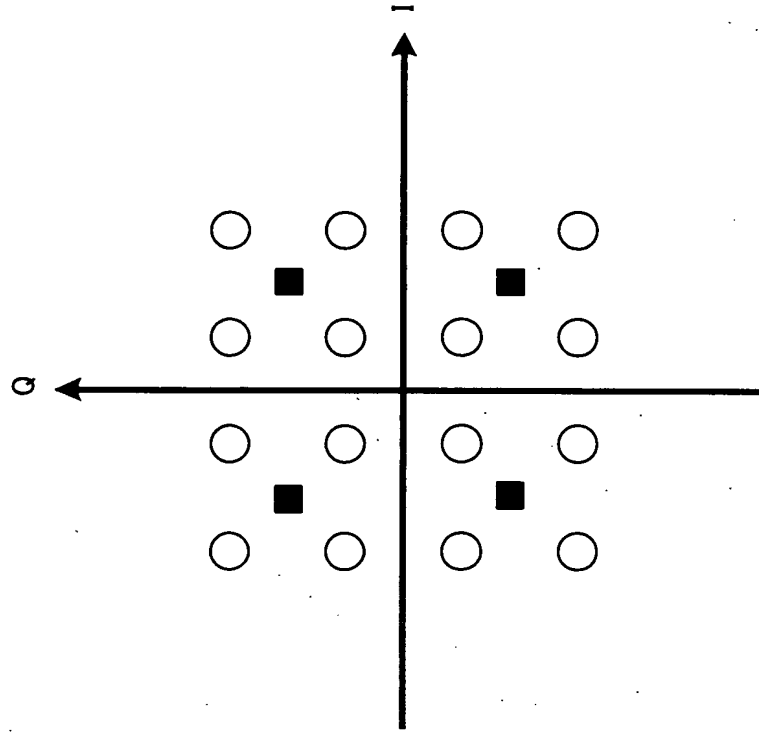


FIG. 54B

5400 BASE STATION

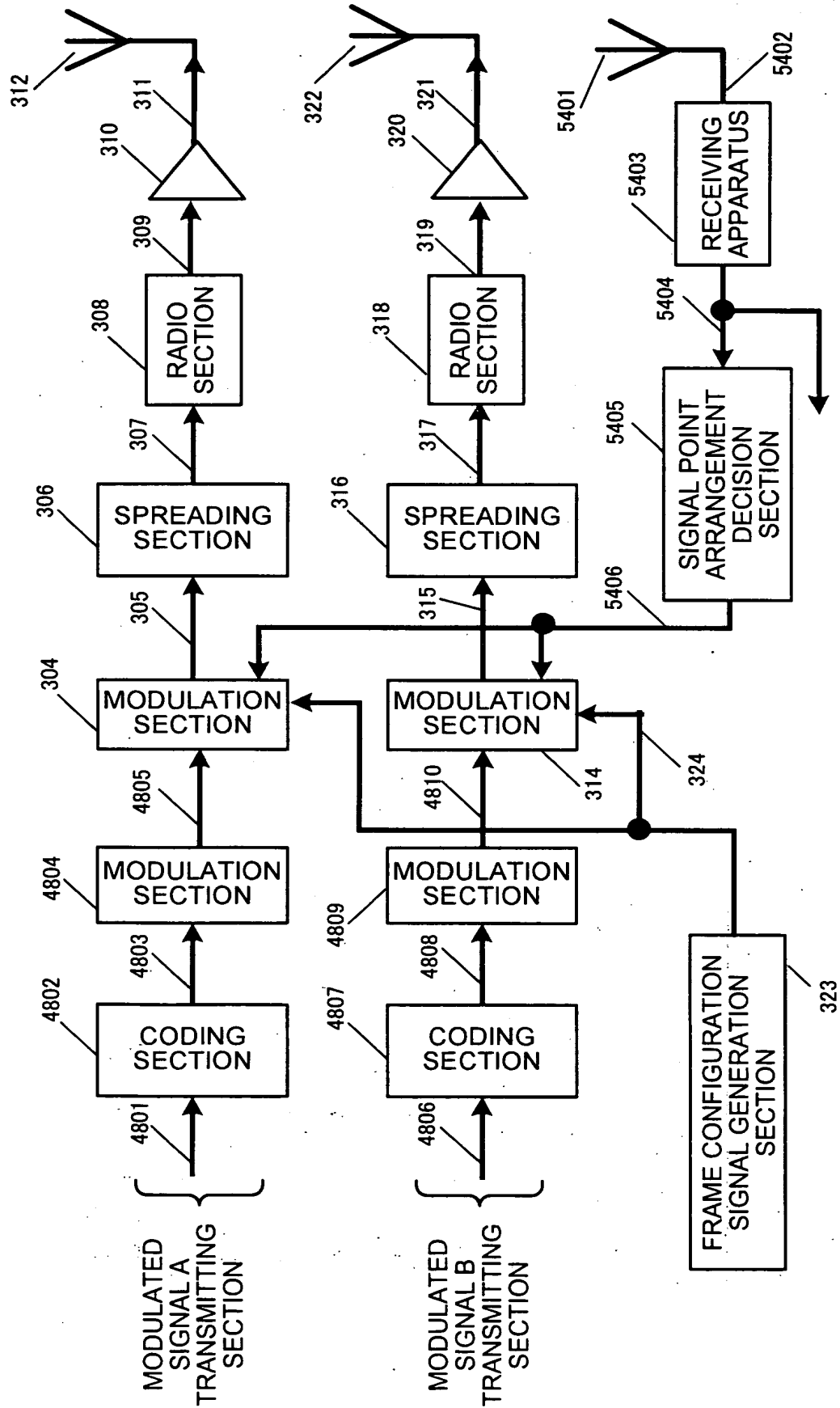


FIG.55

5500 COMMUNICATION TERMINAL

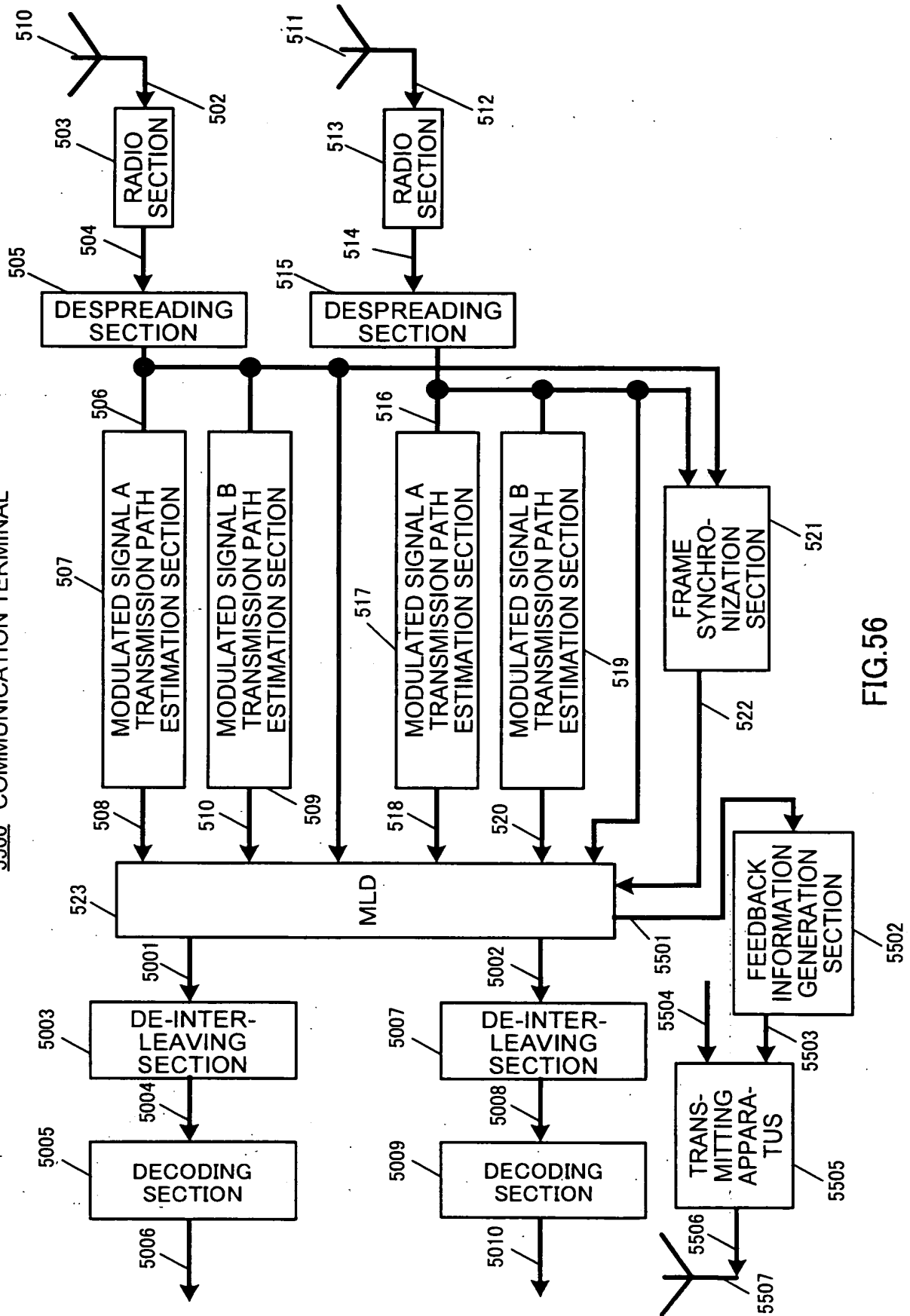


FIG.56

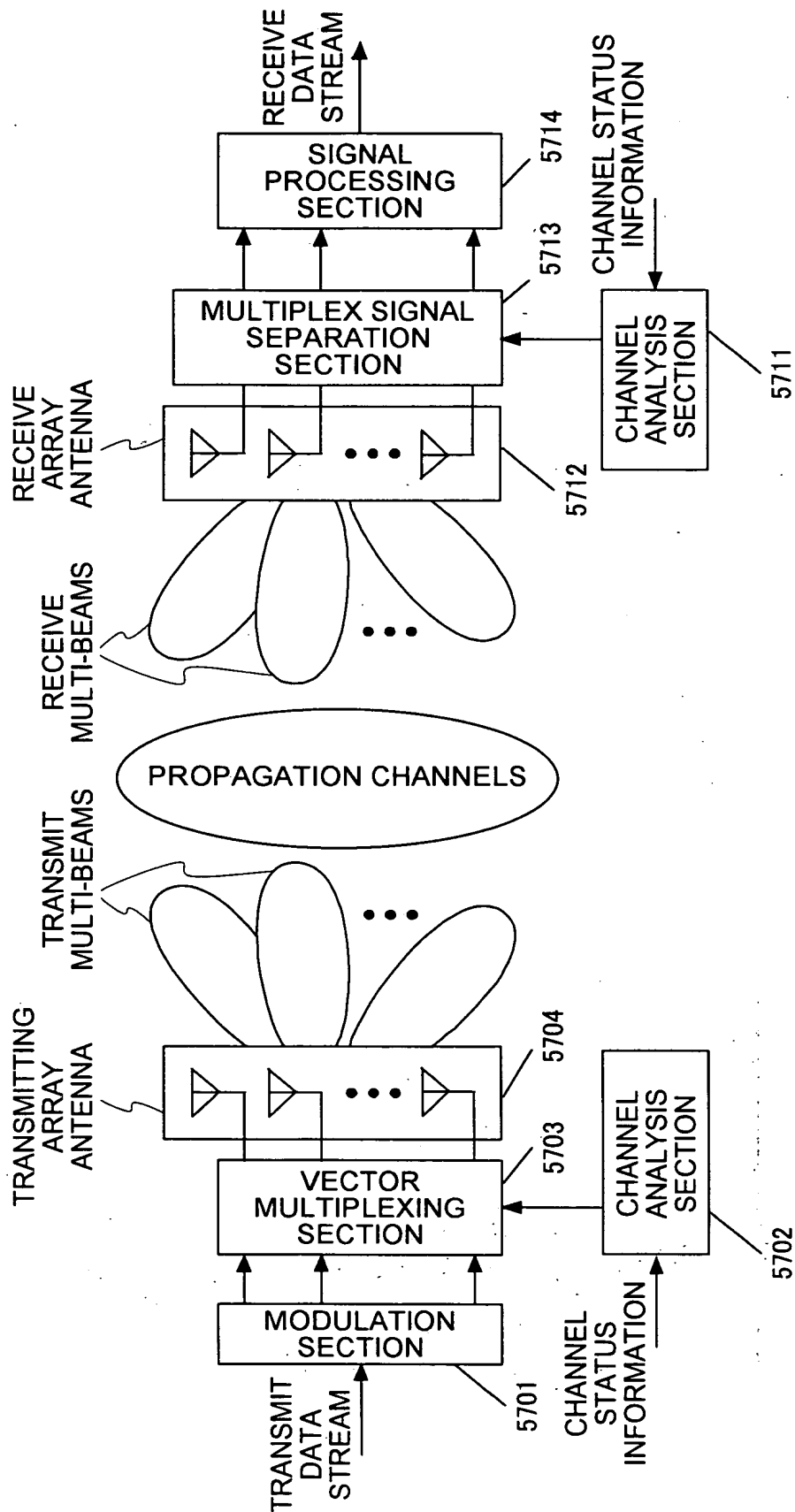


FIG. 57